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Degrees and Other Formal Awards Conferred by New Jersey Colleges & Universities

F.Y.1982 and Recent Trends

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION

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DATA BRIEF SERIES

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INTRODUCTION AND SUMMARY

This Data Brief reports[1] degrees and other formal awards[2] conferred by New Jersey colleges and universities in FY 1982, summarizes trends over the past six years, and presents selected comparisons between FY 1981 and FY 1982.

The total number of degrees conferred statewide increased by slightly more than 1% from 44,790 in FY 1981 to 45,357 in FY 1982. This one-year increase reversed a trend of annual decreases since 1977 in the number of degrees conferred. Nevertheless, the total number of awards in 1982 remained below the FY 1977 level (by about 4%).

The public colleges and universities awarded 71% of all degrees and other formal awards conferred in FY 1982, and the independent colleges, the remaining 29% of the total. The data show also that the independent sector awards a smaller proportion of its degrees at the baccalaureate level and below, and a higher proportion at the master's and doctoral levels, in comparison with the public sector. These patterns are consistent with the distribution of enrollments between the two sectors, and between undergraduate and post-baccalaureate level enrollments within each sector.

A comparison of changes by broad program category between FY 1977 and FY 1982 shows the following: degrees awarded in Education, Liberal Arts, Mathematics, and Natural Sciences have decreased at all levels; certificates and degrees in the fields of Business, Computer Science (including related fields such as Data Processing), and Engineering and Architecture have experienced significant growth; and, degrees in Law, Theology, and the Health Professions continue to account for the vast majority of all doctoral and first-professional degrees.

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[1] The data presented in this report are the most current available, and supercede all previously published statistics.

[2] Includes academic certificates and diplomas below the associate degree level, as well as associate, bachelor's, master's, doctoral, and first-professional (in Law, Medicine/Dentistry, and Theology) degrees. Throughout this report, the terms "degrees" and "awards" are used interchangeably and are meant to include any/all of the different types of degrees/awards.

TOTAL DEGREES AND OTHER FORMAL AWARDS CONFERRED

In FY 1982 (i.e., the fiscal year beginning July 1, 1981 and ending June 30, 1982), New Jersey colleges and universities conferred 45,357 degrees and other formal awards. This number represents a slight increase (1.3%) over the number of total degrees and other formal awards conferred in the previous fiscal year. Bachelor's degrees accounted for nearly 55% of the total, followed by associate (22%), master's (17%), doctoral/professional degrees (5%), and certificates (1%).

The total number of degrees and certificates conferred in New Jersey over the six-year period from FY 1977 to FY 1982 exceeded a quarter of a million (274,518). As seen in Table 1, between FY 1981 and FY 1982 there was a slight increase overall and within all award categories except the master's. However, the six-year trend shows an overall decline of 4%, and increases only in the two smallest categories of degrees -- certificates (up 3%) and doctoral/professional degrees (up 21%) -- during the period.

Table 1

DEGREES AND CERTIFICATES (Below the Associate Level)
CONFERRED BY N.J. COLLEGES AND UNIVERSITIES, BY DEGREE LEVEL
FY 1977, FY 1981, & FY 1982

AWARD LEVEL	FY 1977	FY 1981	FY 1982	FY 82/FY 81 1-YR CHANGE #	FY 82/FY 81 1-YR CHANGE %Δ	FY 82/FY 77 5-YR CHANGE #	FY 82/FY 77 5-YR CHANGE %Δ
CERTIFICATES	626	525	645	120	22.9	19	3.0
ASSOCIATE	10,421	9,621	9,798	177	1.8	-623	-6.0
BACHELOR'S	25,534	24,446	24,890	444	1.8	-644	-2.5
MASTER'S	8,540	7,793	7,512	-281	-3.6	-1,028	-12.0
DOCTORAL/PROFESSIONAL	2,081	2,405	2,512	107	4.4	431	20.7
TOTAL AWARDS	47,202	44,790	45,357	567	1.3	-1,845	-3.9

Source: NCES Form #2300-2.1 (Degrees & Other Formal Awards Conferred).

DEGREES CONFERRED BY LEVEL AND SECTOR

Since FY 1977, the distribution of degrees and certificates between the public and independent sectors has been relatively stable. Thus, in FY 1982 the public colleges and universities continued to award 71%, and the independents, 29%, of all degrees.

Certificates

Certificates awarded in academic programs of at least one year's duration but below the associate degree level, are conferred only by institutions in the public sector, with the community colleges accounting for the majority of all certificate awards. The sector's proportion of the total in FY 1982 (81%) represented stability from FY 1977 as seen in Table 2. In contrast, the proportion of all certificates conferred by N.J.I.T. in FY 1982 decreased slightly, and the proportion awarded by U.M.D.N.J. increased slightly compared with the FY 1977 distribution.

Associate Degrees

In FY 1982, 9,798 associate degrees were conferred in New Jersey. This number represents a slight increase from the previous year (9,621), resulting in the reversal of a pattern of annual decreases in the recent past. The increase, however, was not large enough to bring the number of associate degrees back to the FY 1977 level of more than 10,000.

As seen in Table 2, the overwhelming majority (91%) of associate degrees continue to be conferred by the community colleges. Nevertheless, the number of these degrees awarded annually declined, due to both increasing numbers of part-time undergraduates who take longer to graduate, and increasing numbers of undergraduates who transfer from community colleges to four-year colleges in New Jersey prior to completing the requirements for the associate degree.

Table 2

CERTIFICATES AND ASSOCIATE DEGREES CONFERRED, BY COLLEGE SECTOR: FY 1977 AND FY 1982

AWARD/SECTOR	1977 #	1977 (%)	1982 #	1982 (%)	Change #	Change %Δ
CERTIFICATES						
Community Colleges	508	(81.2)	523	(81.1)	15	3.0
N.J.I.T.	71	(11.3)	46	(7.1)	-25	-35.0
U.M.D.N.J.	47	(7.5)	76	(11.8)	29	61.7
Total	626	(100.0)	645	(100.0)	19	3.0
ASSOCIATES						
Community Colleges	9,510	(91.3)	8,924	(91.1)	-886	-9.3
Rutgers*	20	(0.2)	2	*	-18	-90.0*
Thomas Edison	210	(2.0)	202	(2.1)	-8	-3.8
Independent Colleges	681	(6.5)	670	(6.8)	-11	-1.6
Total	10,421	(100.0)	9,798	(100.0)	-623	-6.0

Source: NCES Form #2300-2.1 (Degrees & Other Formal Awards Conferred)

*The small number of graduates in 1982 and the large percent decline from 1977 are attributable to Rutgers University's discontinuance (in 1981) of its associate degree programs.

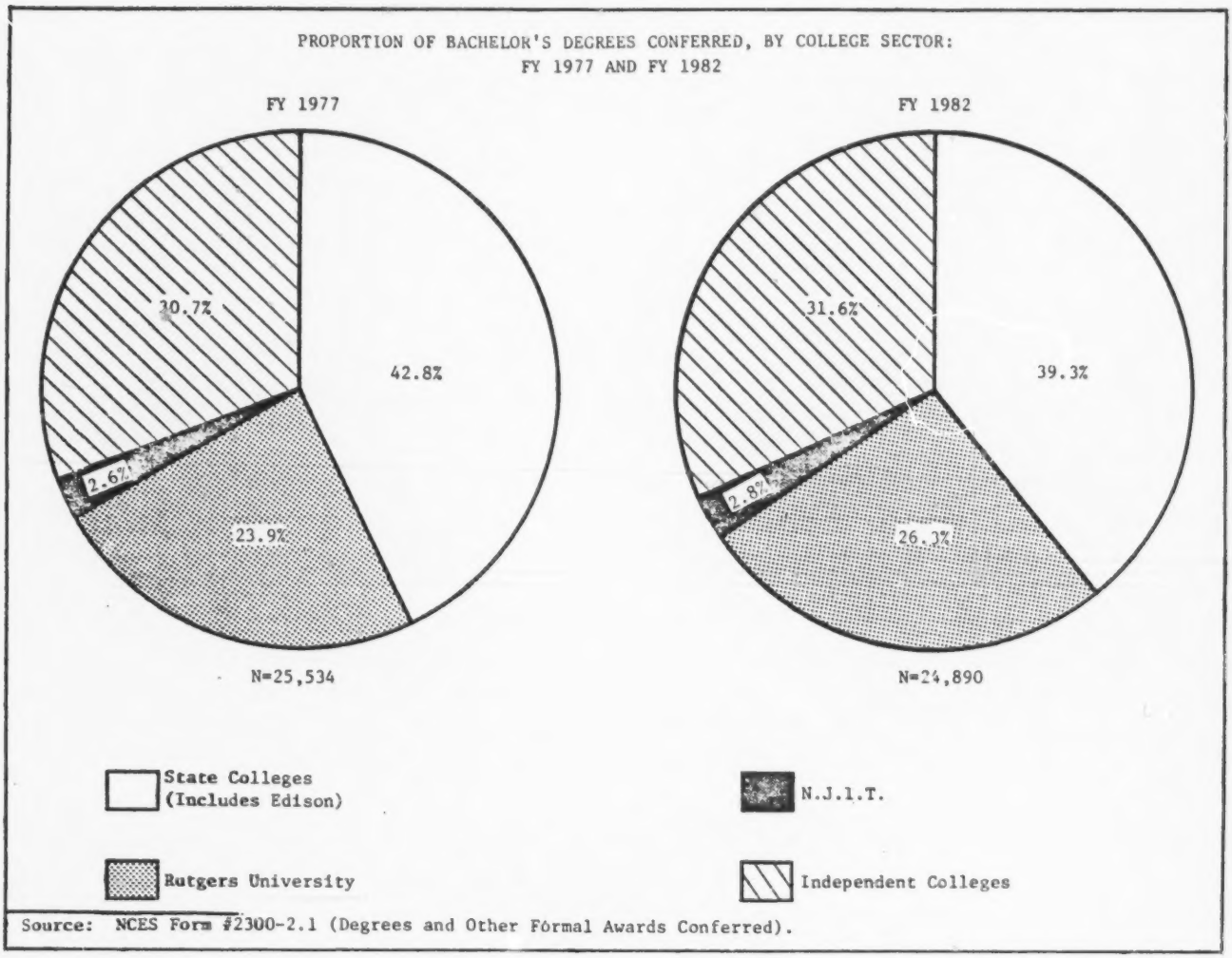
Bachelor's Degrees

During FY 1982, 24,890 bachelor's degrees were conferred, resulting in a nearly 2% increase over the previous year. Although this represents the second consecutive year of increase in the number of degrees conferred at this level, the number is below the high in FY 1977 of 25,534.

The state colleges (including Thomas A. Edison State College), followed by the independent colleges, continue to award the largest proportions of these degrees with, respectively, 39% and 32% in FY 1982 (Figure 1). Rutgers accounted for 26% and N.J.I.T., the remaining 3% of bachelor's degrees. While the proportions of degrees awarded by

Rutgers, N.J.I.T., and the independent institutions have increased over the six-year period, the state colleges' (including Edison) proportion has declined from nearly 43% of the total to slightly over 39%.

FIGURE 1



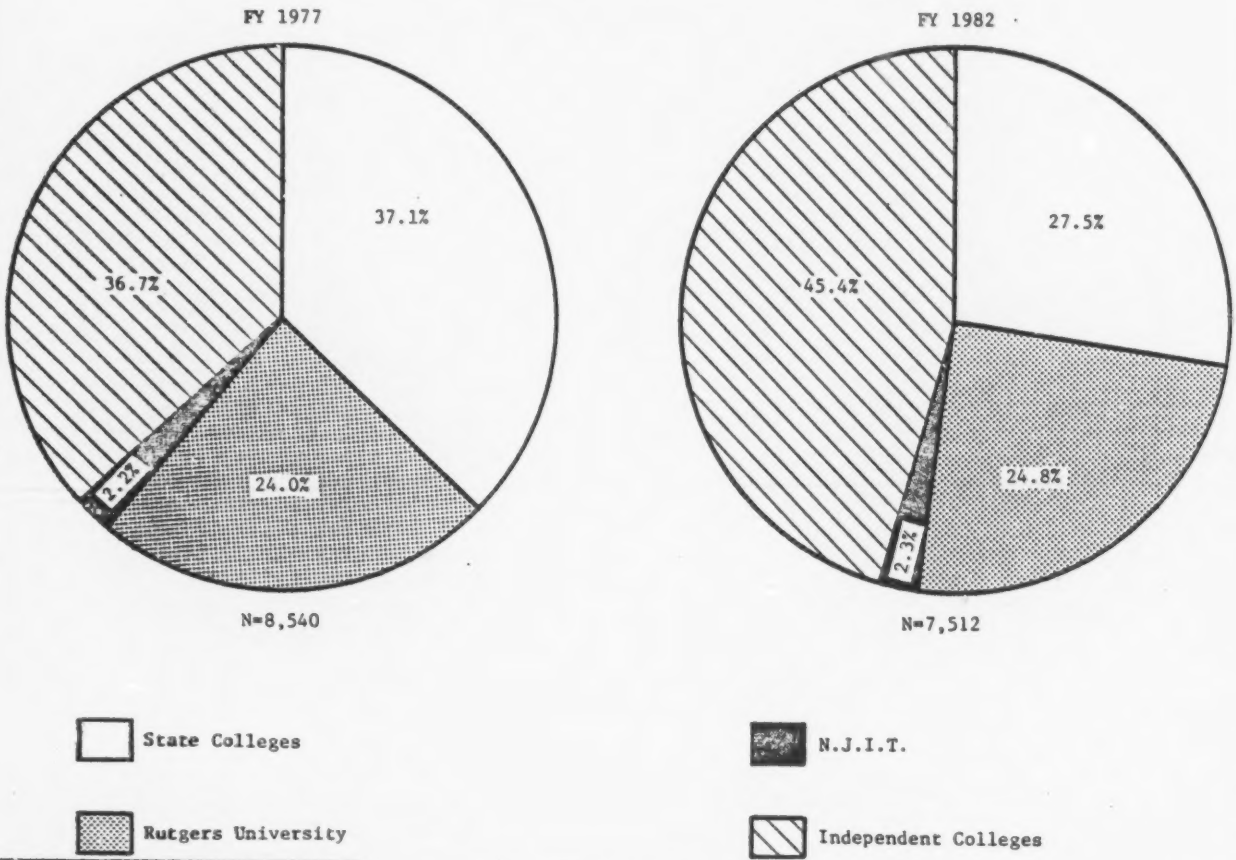
Master's Degrees

As shown in Table 1, the number of master's degrees conferred in FY 1982 was 7,512, reflecting a 4% decrease from FY 1981 and a level 12% below that of FY 1977, when 8,540 master's degrees were awarded. Of the smaller total number of master's degrees in the state in FY 1982, the independent colleges awarded over 45%, up from 37% in FY 1977.

Both Rutgers and N.J.I.T. exhibited little changes between FY 1977 and FY 1982 in their respective proportions of the total, while the state colleges registered a decline, from 37% to 27%, over the six-year period.

FIGURE 2

PROPORTION OF MASTER'S DEGREES CONFERRED, BY COLLEGE SECTOR:
FY 1977 AND FY 1982



Source: NCES Form #2300-2.1 (Degrees and Other Formal Awards Conferred).

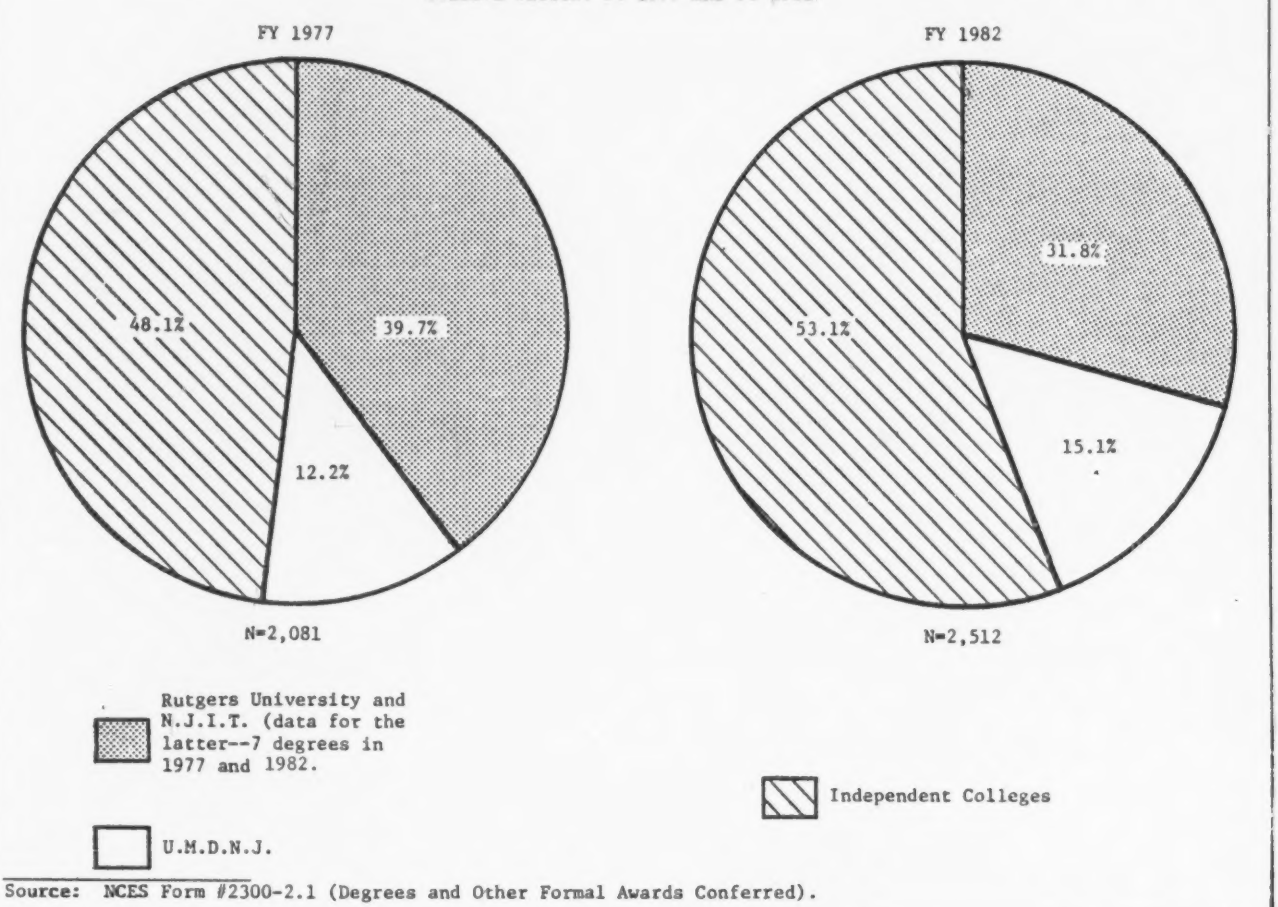
Doctoral and First-Professional Degrees[3]

Total doctoral and first-professional degrees conferred in New Jersey in FY 1982 increased 6% over FY 1981 and 21% over FY 1977 levels. Figure 3 displays the distribution of these degrees by college sector in FY 1977 and FY 1982.

[3] For the purposes of this report, data on doctoral (Ed.D., Ph.D.) and first-professional (J.D., M.D., D.D.S., etc.) degrees have been combined. The latter account for more than two-thirds of degrees in this combined category.

Figure 3

PROPORTION OF DOCTORAL/FIRST-PROFESSIONAL DEGREES CONFERRED, BY COLLEGE SECTOR: FY 1977 AND FY 1982



Source: NCES Form #2300-2.1 (Degrees and Other Formal Awards Conferred).

The six-year growth in the number of these degrees awarded is attributable to increases among the independent colleges and universities -- 333 more degrees in FY 1982 than in FY 1977 -- and U.M.D.N.J., with 126 more degrees. By comparison, the number of degrees awarded by Rutgers in FY 1982 was 28 fewer than in FY 1977, while the number for N.J.I.T. remained the same. As a result, the relative proportion of the total doctoral/first-professional degrees awarded by Rutgers and N.J.I.T. declined from 40% in FY 1977 to 32% in FY 1982; increased for U.M.D.N.J. from 12% to 15% for FY 1977 and FY 1982, respectively; and increased for independent institutions from 48% to 53%.

DEGREES CONFERRED BY LEVEL AND PROGRAM CATEGORY

In addition to the trends in the total numbers of certificates and degrees awarded between fiscal years 1977 and 1982, significant shifts have occurred within degree levels in terms of the broad program areas in which degrees are conferred. A downward trend in fields such as Liberal Arts and Education continues, as does a pattern of increases in Business, Computer Science, and Engineering.

Certificates

Certificates are awarded in six technology areas: Business, Data Processing, Health/Paramedical, Mechanical/Engineering, Natural Sciences, and Public Service. Although the total number of awards in FY 1982 was only 16 higher than in FY 1977, dramatic shifts among the program areas occurred. Thus, a substantial (37%) decline of 158 certificates in Health/Paramedical Technologies was offset largely by dramatic increases in Business and Data Processing Technologies, the latter's combined share of all certificates rising from 11% in FY 1977 to 35% in FY 1982 (Table 3).

Table 3

CERTIFICATES AWARDED BY N.J. COLLEGES & UNIVERSITIES, BY PROGRAM CATEGORY: FY 1977 AND FY 1982

PROGRAM CATEGORY	1977 #	1977 (%)	1982 #	1982 (%)	Change #	Change %Δ
Business Technologies	58	(9.2)	147	(22.8)	89	153.4
Data Processing Technologies	18	(2.9)	79	(12.3)	61	388.9
Health/Paramedical Technologies	427	(67.9)	269	(41.7)	-158	-37.0
Mechanical/Engineering Technologies	103	(16.4)	122	(18.9)	19	18.4
Natural Sciences Technologies	1	(0.1)	8	(1.2)	7	700.0
Public Service Technologies	22	(3.5)	20	(3.1)	-2	-9.1
Total	629	(100.0)	645	(100.0)	16	2.5

Source: NCES Form #2300-2.1 (Degrees and Other Formal Awards Conferred).

Associate Degrees

The number of associate degrees awarded in FY 1982 was 623 fewer than the number awarded in FY 1977, representing a decline of 6%. However, the decline is not uniform across all broad program categories. Rather, it reflects a large decrease in degrees in the Arts and Sciences, and in Health/Paramedical, Natural Sciences, and Public Services Technologies that was offset by dramatic increases in Business, Data Processing, and Mechanical/Engineering Technologies. As a proportion of all associate degrees, degrees in technological fields grew from 55% in FY 1977 to 69% in FY 1982. Business Technologies degrees alone rose from 17% to 28% during the period.

Table 4

ASSOCIATE DEGREES CONFERRED BY N.J. COLLEGES & UNIVERSITIES, BY PROGRAM CATEGORY: FY 1977 AND FY 1982

PROGRAM CATEGORY	1977 #	1977 (%)	1982 #	1982 (%)	Change #	Change %Δ
Arts & Sciences	4,629	(44.4)	3,056	(31.2)	-1,573	-34.0
Business Technologies	1,786	(17.1)	2,708	(27.6)	922	51.6
Data Processing Technologies	255	(2.5)	619	(6.3)	364	142.7
Health/Paramedical Technologies	1,919	(18.4)	1,673	(17.1)	-246	-12.8
Mechanical/Engineering Technologies	569	(5.5)	815	(8.3)	246	43.2
Natural Sciences Technologies	108	(1.0)	76	(0.8)	-32	-29.6
Public Service Technologies	1,155	(11.1)	851	(8.7)	-304	-26.3
Total	10,421	(100.0)	9,798	(100.0)	-623	-6.0

Source: NCES Form #2300-2.1 (Degrees and Other Formal Awards Conferred).

Bachelor's Degrees

The total number of bachelor's degrees awarded in FY 1982 represented a decrease of two and a half percent from the number awarded in FY 1977. The greatest decline is seen in Education, followed by the declines in Mathematics, Liberal Arts, and the Natural Science (Table 5). As a result of the significant growth in the number of degrees conferred in Business, Computer Science, and Engineering and Architecture, 37% of all bachelor's degrees were awarded in these fields in 1982. In 1977, these same fields accounted for 26% of the total number of awards. The Liberal Arts continue to predominate at the bachelor's level, although their aggregate proportion of the total has declined from 36% in FY 1977 to 30% in FY 1982.

These trends indicate that the steady decline in the number of bachelor's degrees awarded in some fields, such as Education and Mathematics, has not abated. On the other hand, the FY 1982 data confirm that the popularity of fields such as Computer Science and Business continues, and contributes to their dramatic patterns of growth.

Table 5

BACHELOR'S DEGREES CONFERRED BY N.J. COLLEGES & UNIVERSITIES, BY PROGRAM CATEGORY: FY 1977 AND FY 1982

PROGRAM CATEGORY	1977 #	1977 (%)	1982 #	1982 (%)	Change #	Change %Δ
Business	4,953	(19.4)	6,522	(26.2)	1,569	31.7
Computer Science	115	(0.4)	562	(2.3)	447	388.7
Education	3,956	(15.5)	2,289	(9.2)	-1,667	-42.1
Engineering/Architecture	1,589	(6.2)	2,103	(8.4)	514	32.3
Health Professions	1,243	(4.9)	1,332	(5.4)	89	7.2
Public Affairs	898	(3.5)	973	(3.9)	75	8.4
Mathematics	448	(1.8)	283	(1.1)	-165	-36.8
Natural Sciences*	2,494	(9.8)	2,167	(8.7)	-327	-13.1
Liberal Arts**	9,067	(35.5)	7,574	(30.4)	-1,493	-16.5
Other***	771	(3.0)	1,085	(4.4)	314	40.7
Total	25,534	(100.0)	24,890	(100.0)	-644	-2.5

*Natural Sciences includes: Agriculture/Natural Resources, Biological Sciences, and Physical Sciences

**Liberal Arts includes: Area Studies, Fine and Applied Arts, Foreign Languages, Letters, Psychology, Social Sciences, Theology, and Interdisciplinary Studies.

***Other includes: Communications, Home Economics, and Library Service.

Source: NCES Form #2300-2.1 (Degrees and Other Formal Awards Conferred).

Master's Degrees

The total number of master's degrees conferred in FY 1982 was 12% below the FY 1977 level. However, the pattern of growth and decline by program category for this level generally follows that found for bachelor's degrees: Business and Computer Science continue to be growth areas, while Education, Mathematics, and Liberal Arts continue to decline.

Although Education is still the largest single field of concentration at the master's level, its FY 1982 proportion (35%) represents a decline from 42% in FY 1977. Growth in the number of Business master's degrees has resulted in this field's proportional representation increasing from 18% to 24% in the six-year period. Proportional increases also occurred in the fields of Computer Science, Health Professions, and Public Affairs, while all other fields declined as a proportion of the total.

Doctoral and First-Professional Degrees

The number of doctoral/first-professional degrees awarded in FY 1982 was 20% greater than in FY 1977. The program areas which largely accounted for this growth were Theology, increasing by 83%, and Health Professions, with an increase of 37% for the period. Law also experienced growth, as did the fields of Business, Computer Science, Library Science, and Public Affairs (although the numbers of degrees in these latter four areas are very small).

Similar to the pattern for other degree levels, the number of degrees in Education, Mathematics, Natural Sciences, and Liberal Arts decreased. In addition, doctoral degrees in Engineering/Architecture declined between FY 1977 and FY 1982.

Table 6

MASTER'S DEGREES CONFERRED BY N.J. COLLEGES & UNIVERSITIES, BY PROGRAM CATEGORY: FY 1977 AND FY 1982

PROGRAM CATEGORY	1977 #	1977 (%)	1982 #	1982 (%)	Change #	Change %Δ
Business	1,528	(17.9)	1,786	(23.8)	258	16.9
Computer Science	131	(1.5)	347	(4.6)	216	164.9
Education	3,579	(41.9)	2,602	(34.6)	-977	-27.3
Engineering/Architecture	567	(6.7)	564	(7.5)	-3	-0.5
Health Professions	142	(1.7)	204	(2.7)	62	43.7
Public Affairs	453	(5.3)	490	(6.5)	37	8.2
Mathematics	165	(1.9)	66	(0.9)	-99	-60.0
Natural Sciences*	480	(5.6)	423	(5.6)	-57	-11.9
Liberal Arts**	1,248	(14.6)	846	(11.3)	-402	-32.2
Other***	247	(2.9)	184	(2.5)	-63	-25.5
Total	8,540	(100.0)	7,512	(100.0)	-1,028	-12.0

*Natural Sciences includes: Agriculture/Natural Resources, Biological Sciences, and Physical Sciences.

**Liberal Arts includes: Area Studies, Fine and Applied Arts, Foreign Languages, Letters, Psychology, Social Sciences, Theology, and Interdisciplinary Studies.

***Other includes: Communications, Home Economics, and Library Service.

Source: NCES Form #2300-2.1 (Degrees and Other Formal Awards Conferred).

Table 7

DOCTORAL/FIRST-PROFESSIONAL DEGREES CONFERRED BY N.J. COLLEGES & UNIVERSITIES, BY PROGRAM CATEGORY: FY 1977 AND FY 1982

PROGRAM CATEGORY	1977 #	1977 (%)	1982 #	1982 (%)	Change #	Change %Δ
Education	111	(5.3)	109	(4.3)	-2	-1.8
Engineering/Architecture	83	(4.0)	69	(2.8)	-14	-16.9
Health Professions	330	(15.9)	451	(18.0)	121	36.7
Law	696	(33.4)	772	(30.7)	76	10.9
Mathematics	43	(2.1)	30	(1.2)	-13	-30.2
Theology	352	(16.9)	646	(25.7)	294	83.5
Natural Sciences*	193	(9.3)	179	(7.1)	-14	-7.3
Liberal Arts***	256	(12.3)	225	(9.0)	-31	-12.1
Other***	17	(0.8)	31	(1.2)	14	82.4
Total	2,081	(100.0)	2,512	(100.0)	431	20.7

* Natural Sciences includes: Agriculture/Natural Resources, Biological Sciences, and Physical Sciences.

** Liberal Arts: includes same categories as listed in note on Table 5 except Theology, which is shown separately.

*** Other includes: Business, Computer Science, Public Affairs, and Library Science.

Source: NCES Form #2300-2.1 (Degrees and Other Formal Awards Conferred).

APPENDIX

STATISTICAL COMPILATIONS

Table A-1

STATEWIDE SUMMARY: CERTIFICATES AND ASSOCIATE DEGREES CONFERRED BY MAJOR CATEGORY, F.Y. 1977 THROUGH F.Y. 1982

Major Category	Number of Awards			1-Year Changes (1982/1981)		5-Year Changes (1982/1977)		Category Dist.
	1977	1981	1982	Number	Perc't	Number	Perc't	1982
CERTIFICATES								
Business Technologies	58	120	147	43	41.3%	89	153.4%	23%
Data Processing Technologies	15	40	79	48	154.8%	64	426.7%	12%
Health/Paramedic Technologies	427	267	269	1	0.4%	-158	-37.0%	42%
Mech/Engineering Technologies	103	74	122	47	62.7%	19	18.4%	19%
Natural Science Technologies	1	8	8	--	--	7	700.0%	1%
Public Service Technologies	22	16	20	4	25.0%	-2	-9.1%	3%
TOTAL, ALL CATEGORIES	626	525	645	120	22.9%	19	3.0%	100%
ASSOCIATE DEGREES								
Arts and Sciences	4,629	2,985	3,056	71	2.4%	-1,573	-34.0%	31%
Business Technologies	1,786	2,628	2,708	80	3.0%	922	51.6%	28%
Data Processing Technologies	255	494	619	125	25.3%	364	142.7%	6%
Health/Paramedic Technologies	1,919	1,658	1,673	15	1.0%	-246	-12.8%	17%
Mech/Engineering Technologies	569	730	815	85	11.6%	246	43.2%	8%
Natural Science Technologies	108	119	76	-43	-36.1%	-32	-29.6%	1%
Public Service Technologies	1,155	1,007	851	-156	-15.5%	-304	-26.3%	9%
Technologies Sub-Total	5,792	6,636	6,742	106	1.6%	950	16.4%	69%
TOTAL, ALL CATEGORIES	10,421	9,621	9,798	177	1.8%	-623	-6.0%	100%

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, 1977 through 1982).

Because percentages are rounded to whole numbers, percents that are less than one-half of one percent are shown as 0%.

Table A-2

SECTOR SUMMARY: DISTRIBUTION OF PRE-ASSOCIATE CERTIFICATES CONFERRED BY MAJOR CATEGORY, F.Y. 1982

Major Category	Total Certificates Conferred				Distribution of Certificates Conferred			
	Community Colleges	UMDNJ	NJIT	Total	Community Colleges	UMDNJ	NJIT	Total
Business Technologies	147	--	--	147	28%	--	--	23%
Data Processing Technologies	79	--	--	79	15%	--	--	12%
Health/Paramedic Technologies	193	76	--	269	37%	100%	--	42%
Mech/Engineering Technologies	76	--	46	122	14%	--	100%	19%
Natural Science Technologies	8	--	--	8	2%	--	--	1%
Public Service Technologies	20	--	--	20	4%	--	--	3%
TOTAL, ALL CATEGORIES	523	76	46	645	100%	100%	100%	100%

Table A-3

SECTOR SUMMARY: DISTRIBUTION OF ASSOCIATE DEGREES CONFERRED BY MAJOR CATEGORY, F.Y. 1982

Major Category	Total Associate Degrees Conferred					Distribution of Associate Degrees Conferred				
	Community Colleges	Rutgers	Edison	Independ. Colleges	Total	Community Colleges	Rutgers	Edison	Independ. Colleges	Total
Arts and Sciences	2,574	--	159	323	3,056	29%	--	79%	48%	31%
Business Technologies	2,539	--	43	126	2,708	28%	--	21%	19%	28%
Data Processing Technologies	587	--	--	32	619	7%	--	--	5%	6%
Health/Paramedic Technologies	1,536	--	--	137	1,673	17%	--	--	20%	17%
Mech/Engineering Technologies	815	--	--	--	815	9%	--	--	--	8%
Natural Science Technologies	76	--	--	--	76	1%	--	--	--	1%
Public Service Technologies	797	2	--	52	851	9%	100%	--	8%	9%
Technologies Sub-Total	6,350	2	43	347	6,742	71%	100%	21%	52%	69%
TOTAL, ALL CATEGORIES	8,924	2	202	670	9,798	100%	100%	100%	100%	100%

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1982).

Table A-4

PRE-ASSOCIATE CERTIFICATES AND ASSOCIATE DEGREES CONFERRED BY MAJOR CATEGORY AT N.J. COMMUNITY COLLEGES, F.Y. 1982

Major Category	Atlantic	Bergen	Brookdale	Burlington	Camden	Cumberland	Essex	Gloucester	Hudson	Mercer	Middlesex	Morris	Ocean	Passaic	Salem	Somerset	Union	Total, Community Colleges
Business Technologies	21	19	9	--	--	--	6	4	2	20	34	9	5	--	16	--	2	147
Data Processing Technologies	--	13	--	--	12	--	6	5	4	29	10	--	--	--	--	--	--	79
Health/Paramedic Technologies	10	14	--	--	--	--	--	16	6	39	8	26	--	9	22	--	43	193
Mech/Engineering Technologies	1	--	8	--	--	1	--	1	--	11	7	19	--	--	28	--	--	76
Natural Science Technologies	--	--	--	--	--	--	--	--	6	2	--	--	--	--	--	--	--	8
Public Service Technologies	1	1	--	--	9	--	--	--	--	--	5	--	4	--	--	--	--	20
TOTAL, ALL CATEGORIES	33	47	17	--	21	1	12	26	18	101	64	54	9	9	66	--	45	523
ASSOCIATE DEGREES																		
Arts and Sciences	103	192	229	343	33	70	79	45	0	93	170	648	301	20	25	103	120	2,574
Business Technologies	79	284	328	49	176	39	92	73	51	241	449	133	143	26	36	170	170	2,539
Data Processing Technologies	--	65	63	23	38	10	19	30	24	30	71	93	37	9	--	50	25	587
Health/Paramedic Technologies	113	210	120	14	80	55	75	120	18	97	157	131	48	46	--	60	192	1,536
Mech/Engineering Technologies	7	8	46	23	56	10	36	28	14	110	136	109	48	--	31	38	115	815
Natural Science Technologies	--	14	9	--	--	6	--	--	--	19	21	7	--	--	--	--	--	76
Public Service Technologies	12	52	95	9	109	27	50	49	21	63	101	66	63	22	--	17	41	797
Technologies Sub-Total	211	633	661	118	459	147	272	300	128	560	935	539	339	103	67	335	543	6,350
TOTAL, ALL CATEGORIES	314	825	890	461	492	217	351	345	128	653	1,105	1,187	640	123	92	438	663	8,924

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1981).

Table A-5

PRE-ASSOCIATE CERTIFICATES AND ASSOCIATE DEGREES CONFERRED BY MAJOR CATEGORY AT N.J. PUBLIC FOUR-YEAR COLLEGES & INDEPENDENT COLLEGES, F.Y. 1982

Major Category	Rutgers	U.M.D.N.J.	N.J.I.T.	Edison	Total, Public 4-Yr. Colleges	Assumption	Centenary	Edward Williams	Fairleigh Dickinson	Felician	Monmouth	Northeastern	Rider	St.Peter's	Upsala	Total, Independent Colleges
CERTIFICATES																
Health/Paramedic Technologies	--	--	--	76	76	--	--	--	--	--	--	--	--	--	--	--
Mech/Engineering Technologies	--	46	--	--	46	--	--	--	--	--	--	--	--	--	--	--
TOTAL, ALL CATEGORIES	--	46	--	76	122	--	--	--	--	--	--	--	--	--	--	--
ASSOCIATE DEGREES																
Arts and Sciences	--	--	159	--	159	9	31	186	--	5	12	9	5	47	19	323
Business Technologies	--	--	43	--	43	--	113	--	--	--	10	--	--	--	3	126
Data Processing Technologies	--	--	--	--	--	--	--	--	--	--	--	--	32	--	--	32
Health/Paramedic Technologies	--	--	--	--	--	--	--	--	50	87	--	--	--	--	--	137
Public Service Technologies	2	--	--	--	2	--	23	--	--	--	--	--	3	26	--	52
Technologies Sub-Total	2	--	43	--	45	--	136	--	50	87	10	--	35	26	3	347
TOTAL, ALL CATEGORIES	2	--	202	--	204	9	167	186	50	92	22	9	40	73	22	670

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1982).

Table A-6

STATEWIDE SUMMARY: BACHELOR'S DEGREES CONFERRED BY MAJOR CATEGORY, F.Y. 1977, 1981 & 1982

Major Category	Number of Bachelor's Degrees Conferred			Category Distribution		1-Year Changes (1982/1981)		5-Year Changes (1982/1977	
	1977	1981	1982	1977	1982	Number	Perc't	Number	Perc't
Agriculture/Natural Resources	246	309	277	1%	1%	-32	-10%	31	13%
Architecture/Environ Design	117	156	141	0%	1%	-15	-10%	24	21%
Area Studies	113	67	52	0%	0%	-15	-22%	-61	-54%
Biological Sciences	1,701	1,510	1,343	7%	6%	-167	-11%	-358	-21%
Business/Management	4,953	5,974	6,522	19%	26%	548	9%	1,569	32%
Communications	414	698	803	2%	3%	105	15%	389	94%
Computer/Information Science	115	403	562	1%	2%	159	40%	447	389%
Education	3,956	2,420	2,289	16%	9%	-131	-5%	1,667	-42%
Engineering	1,472	1,776	1,962	6%	8%	186	10%	490	33%
Fine and Applied Arts	1,400	1,086	1,134	5%	5%	48	4%	-266	-19%
Foreign Languages	494	321	275	2%	1%	-46	-15%	-219	-44%
Health Professions	1,243	1,342	1,332	5%	5%	-10	-1%	89	7%
Home Economics	314	326	266	1%	1%	-60	-18%	-48	-15%
Letters	1,395	1,232	1,185	5%	5%	-47	-4%	-210	-15%
Library Science	43	17	16	0%	0%	-1	-6%	-27	-63%
Mathematics	448	295	283	2%	1%	-12	-4%	-165	-37%
Physical Sciences	547	556	547	2%	2%	-9	-2%	--	--
Psychology	1,520	1,341	1,370	6%	6%	29	2%	-150	-10%
Public Affairs and Services	898	913	973	4%	4%	60	7%	75	8%
Social Sciences	3,654	3,091	3,034	14%	12%	-57	-2%	-620	-17%
Theological Professions	84	126	114	0%	0%	-12	-10%	30	36%
Interdisciplinary Studies	407	507	410	2%	2%	-97	-19%	3	1%
TOTAL, ALL CATEGORIES	25,534	24,446	24,890	100%	100%	444	2%	-644	-3%

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, 1977 through 1982).

Table A-7

SECTOR SUMMARY: DISTRIBUTION OF BACHELOR'S DEGREES CONFERRED BY MAJOR CATEGORY, F.Y. 1982

Major Category	Total Bachelor's Conferred						Distribution of Bachelor's Degrees Conferred*					
	State Colleges	Rutgers	NJIT	Edison	Independ. Colleges	Total	State Colleges	Rutgers	NJIT	Edison	Independ. Colleges	Total
Agriculture/Natural Resources	--	277	--	--	--	277	--	4%	--	--	--	1%
Architecture/Environ Design	--	66	53	--	22	141	--	1%	7%	--	0%	1%
Area Studies	15	17	--	--	20	52	0%	0%	--	--	0%	0%
Biological Sciences	361	532	--	--	450	1,343	4%	8%	--	--	6%	5%
Business/Management	2,395	1,194	25	61	2,847	6,522	25%	18%	4%	20%	36%	26%
Communications	328	292	--	--	183	803	3%	5%	--	--	2%	3%
Computer/Information Sciences	205	186	41	--	130	562	2%	3%	6%	--	2%	2%
Education	1,716	80	--	--	493	2,289	18%	1%	--	--	6%	9%
Engineering	136	486	570	--	770	1,962	1%	8%	82%	--	10%	8%
Fine and Applied Arts	669	257	--	--	208	1,134	7%	4%	--	--	3%	5%
Foreign Languages	79	111	--	--	85	275	1%	2%	--	--	1%	1%
Health Professions	644	353	--	--	335	1,332	7%	5%	--	--	4%	5%
Home Economics	179	76	--	--	11	266	2%	1%	--	--	0%	1%
Letters	331	443	--	--	411	1,185	4%	7%	--	--	5%	5%
Library Science	16	--	--	--	--	16	0%	--	--	--	--	0%
Mathematics	136	77	--	--	70	283	1%	1%	--	--	1%	1%
Physical Sciences	165	222	3	--	157	547	2%	3%	1%	--	2%	2%
Psychology	541	460	--	--	369	1,370	6%	7%	--	--	5%	6%
Public Affairs and Sciences	633	80	--	34	226	973	7%	1%	--	11%	3%	4%
Social Sciences	821	1,225	--	93	895	3,034	9%	19%	--	30%	11%	12%
Theological Professions	--	--	--	--	114	114	--	--	--	--	2%	1%
Interdisciplinary	111	115	--	124	60	410	1%	2%	--	39%	1%	2%
TOTAL, ALL CATEGORIES	9,481	6,549	692	312	7,856	24,890	100%	100%	100%	100%	100%	100%

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1982).

*Because percentages are rounded to whole numbers, percents that are less than one-half of one percent are shown as 0%.

Table A-8

BACHELOR'S DEGREES CONFERRED BY MAJOR CATEGORY AT N.J. PUBLIC COLLEGES, F.Y. 1982

Major Category	Glassboro	Jersey City	Kean	Montclair	Ramapo	Stockton	Trenton	William Paterson	Total, State Colleges	Rutgers University				N.J.I.T.	Thomas Edison	Total, Public Colleges
										Camden Campus	Newark Campus	New Brunswick Campus	Total, Rutgers			
Agriculture/Natural Resources	--	--	--	--	--	--	--	--	--	--	--	277	277	--	--	277
Architecture/Environ Design	--	--	--	--	--	--	--	--	--	--	--	66	66	53	--	119
Area Studies	--	--	--	--	15	--	--	--	15	--	--	17	17	--	--	32
Biological Sciences	20	25	42	62	34	121	36	21	361	24	114	394	532	--	--	893
Business/Management	324	139	280	571	217	233	255	376	2,395	299	379	516	1,194	25	61	3,675
Communications	149	38	--	--	34	--	--	107	328	--	--	292	292	--	--	620
Computer/Information Sciences	--	9	91	69	--	36	--	--	205	6	--	180	186	41	--	432
Education	460	136	291	198	--	--	364	267	1,716	--	4	76	80	--	--	1,796
Engineering	5	--	30	--	--	--	101	--	136	--	--	486	486	570	--	1,192
Fine and Applied Arts	84	69	93	177	24	43	109	70	669	22	32	203	257	--	--	926
Foreign Languages	11	--	11	52	--	--	--	5	79	10	13	88	111	--	--	190
Health Professions	--	155	43	59	--	61	189	137	644	50	119	184	353	--	--	997
Home Economics	25	--	--	154	--	--	--	--	179	--	--	76	76	--	--	255
Letters	21	20	69	101	27	19	49	25	331	39	36	368	443	--	--	774
Library Science	--	--	8	--	--	--	8	--	16	--	--	--	--	--	--	16
Mathematics	19	28	8	34	6	6	24	11	136	10	2	65	77	--	--	213
Physical Sciences	15	14	37	34	12	27	23	3	165	10	39	173	222	3	--	390
Psychology	62	21	55	149	66	45	100	43	541	38	68	354	460	--	--	1,001
Public Affairs and Services	116	85	92	49	7	54	153	77	633	30	12	38	80	--	34	747
Social Sciences	77	78	116	200	67	112	91	80	821	90	157	978	1,225	--	93	2,139
Interdisciplinary Studies	--	--	--	4	59	10	--	38	111	3	12	1[illegible]	115	--	124	350
TOTAL, ALL CATEGORIES	1,388	817	1,266	1,913	568	767	1,502	1,260	9,481	631	987	4,931	6,549	692	312	17,034

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1982).

Table A-9

BACHELOR'S DEGREES CONFERRED BY MAJOR CATEGORY AT N.J. INDEPENDENT COLLEGES, F.Y. 1982

Major Category	Beth Medrash	Bloomfield	Caldwell	Centenary	Don Bosco	Drew	FDU Madison	FDU Rutherford	FDU Teaneck	Felician	Georgian Court	Monmouth	Northeastern	Princeton	Rabbinical	Rider	St. Elizabeth's	St. Peter's	Seton Hall	Stevens	Upsala	Westminster	Total, Independent Colleges
Architecture/Envir Design	--	--	--	--	--	--	--	--	--	--	--	--	--	22	--	--	--	--	--	--	--	--	22
Area Studies	--	--	--	--	--	2	--	--	5	--	--	--	--	10	--	--	--	--	3	--	--	--	20
Biological Sciences	--	8	6	--	--	47	57	28	67	3	4	25	--	75	--	6	40	23	45	--	16	--	450
Business/Management	--	124	26	25	--	--	330	225	402	--	39	211	--	--	--	590	--	257	480	--	138	--	2,847
Communications	--	--	--	--	--	--	--	--	44	--	--	--	--	--	--	17	--	--	122	--	--	--	183
Computer/Information Sci	--	--	--	--	--	--	--	--	25	--	--	23	--	--	--	--	--	43	17	22	--	--	130
Education	--	--	8	21	--	--	30	19	49	15	60	51	--	--	--	39	23	30	110	--	--	18	493
Engineering	--	--	--	--	--	--	--	--	252	--	--	23	--	212	--	--	--	--	--	283	--	--	770
Fine and Applied Arts	--	2	15	6	--	36	8	7	10	1	8	18	--	34	--	6	5	2	11	--	6	33	208
Foreign Languages	--	--	3	--	--	17	3	1	6	--	8	7	--	19	--	6	--	6	11	--	3	--	85
Health Professions	--	19	2	1	--	--	13	92	32	17	--	5	--	--	--	--	6	4	144	--	--	--	335
Home Economics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	11
Letters	--	10	13	--	6	45	19	11	17	1	9	17	--	158	--	28	12	15	36	--	14	--	411
Mathematics	--	1	2	--	--	13	8	--	1	--	4	2	--	19	--	--	3	6	11	--	--	--	70
Physical Sciences	--	3	1	--	--	13	11	4	6	--	3	3	--	52	--	8	5	3	13	20	12	--	157
Psychology	--	23	10	--	--	45	35	19	31	6	8	25	--	60	--	18	2	16	49	--	22	--	369
Public Affairs & Services	--	--	--	24	--	--	15	--	25	--	10	23	--	63	--	--	--	--	60	--	6	--	226
Social Sciences	--	22	16	--	--	176	38	25	25	--	21	42	--	311	--	28	9	41	111	--	30	--	895
Theological Professions	21	--	--	--	--	--	--	--	--	--	--	--	42	--	51	--	--	--	--	--	--	--	114
Interdisciplinary Studies	--	--	--	15	--	4	--	--	9	1	6	--	--	9	--	--	--	13	3	--	--	--	60
TOTAL, ALL CATEGORIES	21	212	102	92	6	398	567	431	1,006	44	180	470	42	1,044	51	766	116	459	1,226	325	247	51	7,856

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1982).

Table A-10

STATEWIDE SUMMARY: MASTER'S DEGREES CONFERRED BY MAJOR CATEGORY, F.Y. 1977, F.Y. 1981, & F.Y. 1982

Major Category	Number of Master's Degrees Conferred			Category Distribution		1-Year Changes (1982/1981)		5-Year Changes (1982/1977)	
	1977	1981	1982	1977	1982	Number	Perc't	Number	Perc't
Agriculture/Natural Resources	38	43	46	1%	1%	3	7%	8	21%
Architecture/Environ Design	74	71	62	1%	1%	-9	-13%	-12	-16%
Area Studies	30	34	24	0%	0%	-10	-29%	-6	-20%
Biological Studies	277	245	230	3%	3%	-15	-6%	-47	-17%
Business/Management	1,528	1,752	1,786	18%	24%	36	2%	258	17%
Communications	25	44	34	0%	0%	-10	-23%	9	36%
Computer/Information Sciences	131	247	347	1%	5%	100	40%	216	165%
Education	3,579	2,745	2,602	42%	35%	-143	-5%	-977	-27%
Engineering	493	480	502	6%	7%	22	5%	9	2%
Fine and Applied Arts	270	187	156	3%	2%	-31	-17%	-114	-42%
Foreign Languages	55	54	57	1%	1%	3	6%	2	4%
Health Professions	142	211	204	2%	3%	-7	-3%	62	44%
Home Economics	39	36	33	1%	0%	-3	-8%	-6	-15%
Letters	203	150	135	2%	2%	-15	-10%	-68	-33%
Library Science	183	160	117	2%	1%	-43	-27%	-66	-36%
Mathematics	165	79	66	2%	1%	-13	-16%	-99	-60%
Physical Sciences	165	153	147	2%	2%	-6	-4%	-18	-11%
Psychology	247	183	163	3%	2%	-20	-11%	-84	-34%
Public Affairs and Services	453	515	490	5%	7%	-25	-5%	37	8%
Social Sciences	312	217	179	4%	2%	-38	-18%	-133	-43%
Theological Professions	122	98	108	1%	1%	10	10%	-14	-11%
Interdisciplinary Studies	9	89	24	0%	0%	-65	-73%	15	167%
TOTAL, ALL CATEGORIES	8,540	7,793	7,512	100%	100%	-281	-4%	-1,028	-12%

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, 1977 through 1982).
Because percentages are rounded to whole numbers, percents that are less than one-half of one percent are shown as 0%.

Table A-11

SECTOR SUMMARY: DISTRIBUTION OF MASTER'S DEGREES CONFERRED BY MAJOR CATEGORY, F.Y. 1982

Major Category	Total Master's Degrees Conferred					Distribution of Master's Degrees Conferred*				
	State Colleges	Rutgers	NJIT	Independ. Colleges	Total	State Colleges	Rutgers	NJIT	Independ. Colleges	Total
Agriculture/Natural Resources	--	46	--	--	46	--	2%	--	--	1%
Architecture/Environ Design	--	39	--	23	62	--	2%	--	1%	1%
Area Studies	--	--	--	24	24	--	--	--	1%	0%
Biological Sciences	24	136	--	70	230	1%	7%	--	2%	3%
Business/Management	--	484	2	1,300	1,786	--	26%	1%	38%	24%
Communications	34	--	--	--	34	2%	--	--	--	0%
Computer/Information Sciences	7	48	20	272	347	0%	3%	11%	8%	5%
Education	1,641	225	--	736	2,602	80%	12%	--	21%	35%
Engineering	--	115	143	244	502	--	6%	83%	7%	7%
Fine and Applied Arts	75	39	--	42	156	4%	2%	--	1%	2%
Foreign Languages	10	37	--	10	57	0%	2%	--	0%	1%
Health Professions	120	25	--	59	204	6%	1%	--	2%	3%
Home Economics	17	16	--	--	33	1%	1%	--	--	0%
Letters	21	51	--	63	135	1%	3%	--	2%	2%
Library Science	8	109	--	--	117	0%	6%	--	--	2%
Mathematics	10	30	--	26	66	0%	2%	--	1%	1%
Physical Sciences	6	35	8	98	147	0%	2%	5%	3%	2%
Psychology	43	23	--	97	163	2%	1%	--	3%	2%
Public Affairs	--	315	--	175	490	--	17%	--	5%	6%
Social Sciences	33	88	--	58	179	2%	5%	--	2%	2%
Theological Professions	--	--	--	108	108	--	--	--	3%	1%
Interdisciplinary Studies	18	--	--	6	24	1%	--	--	0%	0%
TOTAL, ALL CATEGORIES	2,067	1,861	173	3,411	7,512	100%	100%	100%	100%	100%

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1982).

*Because percentages are rounded to whole numbers, percents that are less than one-half of one percent are shown as 0%.

Table A-12

MASTER'S DEGREES CONFERRED BY MAJOR CATEGORY AT N.J. PUBLIC COLLEGES, F.Y. 1982

Major Category	Glassboro	Jersey City	Kean	Montclair	Trenton	William Paterson	Total, State Colleges	Camden Campus	Newark Campus	New Brunswick Campus	Total, Rutgers	N.J.I.T.	Total, Public Colleges
Agriculture/Natural Resources	--	--	--	--	--	--	--	--	--	46	46	--	46
Architecture/Environ Design	--	--	--	--	--	--	--	--	--	39	39	--	39
Biological Sciences	--	--	--	24	--	--	24	8	18	110	136	--	160
Business/Management	--	--	--	--	--	--	--	26	417	41	484	2	486
Communications	--	2	--	--	--	32	34	--	--	--	--	--	34
Computer/Information Sciences	--	--	--	7	--	--	7	--	--	48	48	20	75
Education	239	180	388	200	335	299	1,641	--	--	225	225	--	1,866
Engineering	--	--	--	--	--	--	--	--	--	115	115	143	258
Fine and Applied Arts	--	--	--	37	21	17	75	--	--	39	39	--	114
Foreign Languages	--	--	--	10	--	--	10	--	--	37	37	--	47
Health Professions	--	8	--	55	57	--	120	--	10	15	25	--	145
Home Economics	--	--	--	17	--	--	17	--	--	16	16	--	33
Letters	--	--	--	8	5	8	21	8	4	39	51	--	72
Library Science	8	--	--	--	--	--	8	--	--	109	109	--	117
Mathematics	--	--	--	10	--	--	10	--	--	30	30	--	40
Physical Sciences	--	--	--	6	--	--	6	--	13	22	35	8	49
Psychology	--	--	32	11	--	--	43	--	5	18	23	--	66
Public Affairs and Services	--	--	--	--	--	--	--	17	47	251	315	--	315
Social Sciences	--	1	--	25	--	7	33	--	20	68	88	--	121
Interdisciplinary Studies	--	--	18	--	--	--	18	--	--	--	--	--	18
TOTAL, ALL CATEGORIES	247	191	438	410	418	363	2,067	59	534	1,268	1,861	173	4,101

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1982).

Table A-13

MASTER'S DEGREES CONFERRED BY MAJOR CATEGORY AT N.J. INDEPENDENT COLLEGES, F.Y. 1982

Major Category	Beth Medrash	Drew	FDU Madison	FDU Rutherford	FDU Teaneck	Georgian Court	Immaculate Seminary	Monmouth	New Bruns. Seminary	Princeton Seminary	Princeton University	Rider	St. Peter's	Seton Hall	Stevens	Upsala	Westminster	Total, Independent Colleges
Architecture/Environ Design	--	--	--	--	--	--	--	--	--	--	23	--	--	--	--	--	--	23
Area Studies	--	--	--	--	--	--	--	--	--	--	9	--	--	15	--	--	--	24
biological Sciences	--	--	--	19	23	--	--	--	--	--	5	--	--	23	--	--	--	70
Business/Management	--	--	249	415	275	--	--	106	--	--	--	73	--	154	28	--	--	1,300
Computer/Information Sciences	--	--	--	--	79	--	--	11	--	--	--	--	--	--	182	--	--	272
Education	--	--	--	173	54	84	--	81	--	--	--	76	34	210	--	17	7	736
Engineering	--	--	--	--	31	--	--	2	--	--	78	--	--	--	133	--	--	244
Fine and Applied Arts	--	--	--	--	--	--	--	--	--	--	16	--	--	--	--	--	26	42
Foreign Languages	--	--	--	--	--	--	--	--	--	--	8	--	--	2	--	--	--	10
Health Professions	--	--	--	9	2	--	--	--	--	--	--	--	--	48	--	--	--	59
Letters	--	5	3	3	7	--	--	--	--	--	32	--	--	13	--	--	--	63
Mathematics	--	--	3	--	--	--	--	2	--	--	16	--	--	1	4	--	--	26
Physical Sciences	--	--	6	4	7	--	--	--	--	--	44	--	--	13	24	--	--	98
Psychology	--	--	26	--	35	--	--	--	--	--	9	--	--	--	27	--	--	97
Public Affairs and Services	--	--	4	55	--	--	--	--	--	--	47	68	--	1	--	--	--	175
Social Sciences	--	8	1	1	12	--	--	3	--	--	29	--	--	4	--	--	--	58
Theological Professions	23	--	--	--	--	--	10	--	4	71	--	--	--	--	--	--	--	108
Interdisciplinary Studies	--	4	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	6
TOTAL, ALL CATEGORIES	23	17	292	679	525	84	10	207	4	71	316	217	34	484	398	17	33	3,411

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1982).

Table A-14

STATEWIDE SUMMARY: DOCTORAL AND FIRST-PROFESSIONAL DEGREES CONFERRED BY MAJOR CATEGORY, F.Y. 1977, F.Y. 1981, & F.Y. 1982

Major Category	Number of Doctoral/First-Professional Degrees Conferred			Distribution		1-Year Changes (1982/1981)		5-Year Changes (1982/1977)	
	1977	1981	1982	1977	1982	Number	Perc't	Number	Perc't
Agriculture/Natural Resources	19	8	9	1%	0%	1	-12%	-10	-53%
Architecture/Environ Design	8	10	3	0%	0%	-7	-70%	-5	-63%
Area Studies	4	7	15	0%	1%	8	114%	11	275%
Biological Studies	83	92	82	4%	3%	-10	-11%	-1	-1%
Business/Management	--	--	5	--	0%	5	--	5	--
Computer/Information Sciences	2	4	8	0%	0%	4	100%	6	300%
Education	111	120	109	6%	4%	-11	-9%	-2	-2%
Engineering	75	67	66	4%	3%	-1	-1%	-9	-12%
Fine and Applied Arts	12	15	12	1%	0%	-3	-20%	--	--
Foreign Languages	25	17	19	1%	1%	2	12%	-6	-24%
Health Professions	330	451	451	16%	18%	--	--	121	37%
Law	696	782	772	33%	31%	-10	-1%	76	11%
Letters	63	57	61	3%	3%	4	7%	-2	-3%
Library Science	7	3	6	0%	0%	3	100%	-1	-14%
Mathematics	43	35	30	2%	1%	-5	-14%	-13	-30%
Physical Sciences	91	82	88	4%	4%	6	7%	-3	-3%
Psychology	71	69	47	4%	2%	-22	-32%	-24	-34%
Public Affairs and Services	8	7	12	0%	0%	5	71%	4	50%
Social Sciences	78	86	68	4%	3%	-18	-21%	-10	-13%
Theological Professions	352	488	646	17%	26%	158	32%	294	84%
Interdisciplinary Studies	3	5	3	0%	0%	-2	-40%	--	--
TOTAL, ALL CATEGORIES	2,081	2,405	2,512	100%	100%	107	4%	431	21%

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, 1977 through 1982).

Because percentages are rounded to whole numbers, percents that are less than one-half of one percent are shown as 0%.

Table A-15

SECTOR SUMMARY: DISTRIBUTION OF DOCTORAL AND FIRST-PROFESSIONAL DEGREES CONFERRED BY MAJOR CATEGORY, F.Y. 1982

Major Category	Total Doctoral Degrees Conferred					Distribution of Doctoral Degrees Conferred*				
	Rutgers	UMDNJ	NJIT	Independ. Colleges	Total	Rutgers	UMDNJ	NJIT	Independ. Colleges	Total
Agriculture/Natural Resources	9	--	--	--	9	1%	--	--	--	0%
Architecture/Environ Design	2	--	--	1	3	0%	--	--	0%	0%
Area Studies	--	--	--	15	15	--	--	--	1%	1%
Biological Sciences	61	8	--	13	82	8%	2%	--	1%	3%
Business/Management	--	--	--	5	5	--	--	--	0%	0%
Computer/Information Sciences	3	--	--	5	8	0%	--	--	0%	0%
Education	99	--	--	10	109	13%	--	--	1%	4%
Engineering	21	--	7	38	66	3%	--	100%	3%	3%
Fine and Applied Arts	4	--	--	8	12	1%	--	--	1%	0%
Foreign Languages	12	--	--	7	19	2%	--	--	1%	1%
Health Professions	3	371	--	77	451	0%	98%	--	6%	18%
Law	431	--	--	341	772	54%	--	--	26%	31%
Letters	25	--	--	36	61	3%	--	--	3%	3%
Library Science	6	--	--	--	6	1%	--	--	--	0%
Mathematics	11	--	--	19	30	1%	--	--	1%	1%
Physical Sciences	23	--	--	65	88	3%	--	--	5%	4%
Psychology	42	--	--	5	47	5%	--	--	0%	2%
Public Affairs and Services	12	--	--	--	12	2%	--	--	--	0%
Social Sciences	27	--	--	41	68	3%	--	--	3%	3%
Theological Professions	--	--	--	646	646	--	--	--	48%	26%
Interdisciplinary Studies	1	--	--	2	3	0%	--	--	0%	0%
TOTAL, ALL CATEGORIES	792	379	7	1,334	2,512	100%	100%	100%	100%	100%

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1982).

*Because percentages are rounded to whole numbers, percents that are less than one-half of one percent are shown as 0%.

Table A-16

DOCTORAL AND FIRST-PROFESSIONAL DEGREES CONFERRED BY MAJOR CATEGORY AT N.J. PUBLIC AND INDEPENDENT COLLEGES, F.Y. 1982

	PUBLIC COLLEGES							INDEPENDENT COLLEGES									
Major Category	Rutgers, Camden	Rutgers, Newark	Rutgers, New Brunswick	Total, Rutgers	N.J.I.T.	U.M.D.N.J.	Total, Public Colleges	Beth Medrash	Drew	FDU, Teaneck	Immaculate Seminary	New Brunswick Seminary	Princeton Seminary	Princeton University	Seton Hall	Stevens	Total, Independent Colleges
Agriculture/Natural Resources	--	--	9	9	--	--	9	--	--	--	--	--	--	--	--	--	--
Architecture/Environ Design	--	--	2	2	--	--	2	--	--	--	--	--	--	1	--	--	1
Area Studies	--	--	--	--	--	--	--	--	--	--	--	--	--	15	--	--	15
Biological Sciences	--	6	55	61	--	8	69	--	--	--	--	--	--	13	--	--	13
Business/Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	5
Computer/Information Sciences	--	--	3	3	--	--	3	--	--	--	--	--	--	--	--	5	5
Education	--	--	99	99	--	--	99	--	--	--	--	--	--	--	--	--	10
Engineering	--	--	21	21	7	--	28	--	--	10	--	--	--	38	--	--	38
Fine and Applied Arts	--	--	4	4	--	--	4	--	--	--	--	--	--	8	--	--	8
Foreign Languages	--	--	12	12	--	--	12	--	--	--	--	--	--	7	--	--	7
Health Professions	--	--	3	3	--	371	374	--	--	77	--	--	--	--	--	--	77
Law	200	231	--	431	--	--	431	--	--	--	--	--	--	--	341	--	341
Letters	--	--	25	25	--	--	25	--	8	--	--	--	--	28	--	--	36
Library Science	--	--	6	6	--	--	6	--	--	--	--	--	--	--	--	--	--
Mathematics	--	--	11	11	--	--	11	--	--	--	--	--	--	17	--	2	19
Physical Sciences	--	6	17	23	--	--	23	--	--	--	--	--	--	57	3	5	65
Psychology	--	6	36	42	--	--	42	--	--	--	--	--	--	5	--	--	5
Public Affairs and Services	--	3	9	12	--	--	12	--	--	--	--	--	--	--	--	--	--
Social Sciences	--	--	27	27	--	--	27	--	--	--	--	--	--	41	--	--	41
Theological Professions	--	--	--	--	--	--	--	191	161	--	72	19	203	--	--	--	646
Interdisciplinary Studies	--	--	1	1	--	--	1	--	2	--	--	--	--	--	--	--	2
TOTAL, ALL CATEGORIES	200	252	340	792	7	379	1,178	191	171	87	72	19	203	230	344	17	1,334

Source: NCES HEGIS Form 2300-2.1 (Degrees and Other Formal Awards Conferred, F.Y. 1982).

N.J. DEPARTMENT OF HIGHER EDUCATION

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3/83 S5410-1.2 A

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1977-78 Through 1982-83

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INTRODUCTION AND SUMMARY

An analysis of data on tuition and required fees[1] at New Jersey colleges and universities shows that:

- The growth in student charges at the state and community colleges in the past six years has been lower than the estimated inflation rate for the period.
- Average tuition/fees in the independent sector during the same period (and at Rutgers/N.J.I.T. for the current year) actually grew, in constant dollar terms.
- Gains in various measures of family and disposable per capita income in New Jersey, as well as increased financial aid ceilings, suggest that a relatively low cost (to the student) of attending college in New Jersey is being maintained, although this finding is not uniformly applicable throughout the state.
- Overall (six-year) percentage increases between 1977-78 and 1982-83 ranged from a low of 17% for non-New Jersey resident full-time undergraduates at the state colleges to a high of more than 100% for state resident full-time graduate students at N.J.I.T.
- The most recent increases (between 1981-82 and 1982-83) were particularly sharp in the public four-year colleges, accounting in one year for as much as 55%, and no less than 37%, of the total six-year increase.

This report presents six years of historical data (for 1977-78 through 1982-83) concerning average annual tuition and required fees[2]

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[1]Throughout this report the terms "tuition and required fees", "tuition/fees", "student charges", and "student costs" are used interchangeably and are meant to represent the same thing, i.e., tuition and required fees. It should be noted that these charges do not include living expenses, room and board, transportation, books, or any optional or one-time-only fees paid by students. Consequently, the data do not (and are not meant to) reflect the total cost of college attendance.

[2]Average annual tuition/fees for different types of students in each collegiate sector were calculated by weighting the charges for each type of student by their enrollment in each component college of a sector. Not included in this report are data and analysis pertaining to tuition/fees in professional schools (i.e., law, medical/dental, or theological). Data were collected in the fall (xx) of each academic year on NJHEGIS form #104xx, "Tuition and Required Fees Information".

at New Jersey colleges and universities. The narrative is divided into two sections in which the significance of the trends in these data is examined from several perspectives.

Section I outlines the percentage changes over the six-year period[3] in average tuition/fees in the different New Jersey collegiate sectors[4] for different types of students (full- and part-time, undergraduate and graduate, state resident and non-resident[5]). This section also contains comparisons between the most recent (one-year) and the overall (six-year) growth in student charges, and relates the percentage changes to absolute dollar increases.

Section II discusses varying overall rates of increase in different collegiate sectors as they affect the relationship between sectors with respect to tuition charges. In addition, this section examines the six-year percentage increases in relation to rising consumer prices during the same period of time, and cites data related to students' ability to pay the increased charges.

The Appendix to this report, containing the detailed historical data upon which the summary tables shown in the text are based, consists of 24 separate tables. Sixteen tables display six years of college-specific tuition and required fees data for the colleges in a sector for each type of student. Eight other tables summarize the historical data in terms of sector averages, one table for each student type, e.g., resident full-time undergraduates, etc.

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[3]The discussion is restricted to contrasting selected 1982-83 data with data in the base year of 1977-78. Annual trends (changes that occurred in intervening years) form the context for interpretation of the long-term trends, and can be found in the Appendix Tables.

[4]The sectors are: community colleges, independent colleges, and public senior institutions. The public senior sector consists of N.J.I.T., Rutgers University, and the state colleges. For the purposes of this report, graduate tuition data for the U.M.D.N.J.-School of Biomedical Sciences also are included. Undergraduate data for the U.M.D.N.J.-School of Health-Related Professions, although displayed in the Appendix Tables, are not included in sector averages. (See note on Appendix Tables 1 and 3 for further explanation.)

[5]In this report, for public senior institutions, the term "resident" pertains to residency anywhere in the state, and for community colleges, to residency in the county where the college is located. The term "non-resident" means the same in both instances; i.e., residency anywhere outside New Jersey. The resident/non-resident distinction does not apply to the independent college sector, where there is no difference in charges based on state of residence.

I. TUITION AND REQUIRED FEES AT NEW JERSEY COLLEGES AND UNIVERSITIES

a. Overall Trends--Sector and Student Type Comparisons

Between the 1977-78 and 1982-83 academic years, average annual tuition and required fees at New Jersey colleges and universities increased at rates that varied depending on student type, residency status, and institutional sector.[6] The smallest percentage increase occurred for non-resident part-time undergraduates in the public senior sector, where the student charges rose 33%, from an average of $615 in 1977-78 to $815 in 1982-83. The largest percentage change (73%) was more than double the smallest, and was for full-time undergraduates in the independent college sector, where the sector average rose from $2,902 in 1977-78 to $5,034 in 1982-83. (See Table 1 which summarizes these data.)

Table 1

Average Annual Tuition & Required Fees in New Jersey Colleges and Universities by Student Type and Collegiate Sector: 1977-78 and 1982-83

	Public Four-Year Colleges						Independent Colleges		
	Resident			Non-Resident					
	'77-8	'82-3	%Δ	'77-8	'82-3	%Δ	'77-8	'82-3	%Δ
Full-Time Undergraduate	$ 873	$1,352	+54.9	$1,609	$2,475	+53.8	$2,902	$5,034	+73.5
Part-Time Undergraduate	332	509	+53.3	615	815	+32.5	954	1,631	+71.0
Full-Time Graduate	1,200	2,027	+68.9	1,680	2,807	+67.1	3,259	5,496	+68.6
Part-Time Graduate	584	918	+57.2	824	1,247	+51.3	1,199	2,068	+72.5

[6] This comparison was made using data for public senior colleges only since the independent sector is comprised almost entirely of four-year institutions. Although the inclusion of Princeton University in the latter calculation increases the sector's dollar averages (about 10% for undergraduate and more than 40% for graduate student charges), it has very little effect on the relative change over time. For example, if Princeton's full-time undergraduate charges are excluded, the six-year percentage increase for the sector is 71.4% (compared with 73.5% as shown above). Exclusion of Princeton's tuition and fees for full-time graduate students yields a 67.4% increase, instead of the 68.6% increase shown.

In the independent sector, tuition and required fees rose somewhat more for undergraduates than for graduate students. Of the four types of students in the sector, full-time undergraduates experienced the largest six-year percentage increase (73% as noted), and full-time graduate students, the smallest (69%). The latter reflects growth from $3,259 in 1977-78 to $5,496 in 1982-83.

A slightly different pattern of change obtains in the public senior sector in that the percentage increases were greater for graduate than for undergraduate students. Moreover, the public seniors' average charge for full-time graduate students grew at approximately the same rate as the independents' average for these students (69%).

Also notable in the public sector data are greater rates of increase for state residents than for non-residents. This was true for all types of students, but particularly so for part-time undergraduates. The differences between resident and non-resident tuition increases ranged from 1.8 percentage points for full-time graduate students, to 20.8 percentage points for part-time undergraduates.

The high rate of increase in full-time graduate students' tuition, and the markedly greater rate for resident compared with non-resident part-time undergraduates, are attributable somewhat to the enrollment distribution among the component institutions of the public sector. As noted earlier, sector averages shown are enrollment-weighted averages for all the colleges in the sector; i.e., calculated for each type of student by weighting each institution's charges according to its enrollment of that type of student. Rutgers and N.J.I.T., which together account for about 80% of the public sector's full-time graduate[7] enrollment in New Jersey, experienced a 75% increase in tuition/fees for these students between 1977-78 and 1982-83. (See Table 2.) Consequently, in computing

[7]As noted earlier, this report does not deal with tuition/fees in professional schools (i.e., law, medicine, etc.). Therefore, the enrollment distribution discussed here excludes enrollment in those schools.

the overall public senior sector averages, this substantial increase offsets the much lower rate for the state colleges (37%), which account for only 20% of the enrollment.

Similarly, and conversely, the state college sector, which accounts for about 70% of all part-time undergraduate enrollment in the public senior sector, has had a percentage increase in charges for state resident part-time undergraduates (43%) that is more than twice that for non-residents (18%). This differential is reflected in the overall averages for the sector -- up 53% for in-state and 33% for out-of-state part-time undergraduates as shown in Table 1 -- despite the fact that, at Rutgers and N.J.I.T., percentage increases in tuition for these two types of students were approximately the same.

Table 2

Percentage Increases Between 1977-78 and 1982-83 in Average Annual Tuition & Required Fees, by Student Type and New Jersey Public College/Sector

	State Colleges		Rutgers University		NJIT		Community Colleges	
	Resident	Non-Resident	Resident	Non-Resident	Resident	Non-Resident	Resident	Non-Resident
Full-Time Undergraduate	+37.9	+17.1	+74.3	+76.8	+91.7	+86.2	+30.7	+21.4
Part-Time Undergraduate	+43.1	+18.4	+79.5	+80.1	+69.4	+74.7	+34.5	+16.1
Full-Time Graduate	+37.1	+26.3	+75.4	+76.2	+101.4	+94.6	--	--
Part-Time Graduate	+37.4	+26.5	+84.2	+84.4	+76.3	+78.8	--	--

Tuition increases for all non-New Jersey residents at the state colleges have been lower than for state residents, the most marked differential being the above-noted one for part-time undergraduates. In contrast, a different pattern of increases obtains at Rutgers and N.J.I.T.; i.e., for most student types, non-resident charges have increased at least as much, or more, than have state resident charges. These varying patterns of increase in the public senior sector are largely a function of the extent to which different rates of increase have been needed in order to bring tuition

charges into line with the Board of Higher Education tuition policy.[8] As shown in Table 2, the smallest percentage increases in the public senior sector have been at the state colleges, where tuition rates were already at or near the Board policy levels as shown in Table 3.

Table 3

TUITION AS A % OF EDUCATIONAL COSTS IN NEW JERSEY PUBLIC SENIOR INSTITUTIONAL SECTORS, BY STUDENT TYPE

	FY 1979-80	FY 1980-81	FY 1981-82	FY 1982-83
Rutgers				
Undergrad: Res:	24.0	25.4	27.1	29.9
Undergrad: Non-Res.	48.1	50.9	54.7	59.8
Graduate: Res.	34.2	36.2	38.9	42.5
Graduate: Non-Res.	49.4	52.3	56.2	61.3
N.J.I.T.				
Undergrad: Res.	20.7	21.3	23.3	27.2
Undergrad: Non-Res.	41.3	42.5	47.0	54.5
Graduate: Res.	29.4	30.3	33.5	38.8
Graduate: Non-Res.	42.5	43.7	48.4	55.9
State Colleges				
Undergrad: Res.	29.1	30.1	30.0	30.2
Undergrad: Non-Res.	57.0	54.1	52.2	50.3
Graduate: Res.	43.7	45.1	45.1	45.3
Graduate: Non-Res.	62.7	63.2	61.6	60.2

For county community colleges, the Board's tuition policy applies to the maximum tuition that can be charged to full-time in-county students. (Each individual county college sets its own

[8]The Board of Higher Education, in November 1978, adopted a policy applicable to the public senior institutional sectors, aimed at setting tuition levels at a percentage of average per-student educational costs (to the college). These percentages were 30% for resident full-time undergraduates, and 45% for non-resident undergraduates, and for graduate students, both resident and non-resident. At the state colleges, tuitions for the latter categories of students were at or near the prescribed 45% level in 1978; consequently, increases for these students have not been as large as for resident undergraduates, for which the 30% level had not been achieved. At Rutgers and N.J.I.T. (where tuitions are set by the institutional governing boards, in accordance with BHE policy but not by the BHE, as is the case for the state colleges) more nearly similar rates of increases for all students have occurred in order to move towards the BHE-prescribed levels.

rates, up to the Board of Higher Education-established ceiling.[9]) The relatively low percentage increase in the community college sector's average for full-time resident (in-county) students indicates that, overall, the community colleges' tuitions have been close to the policy guideline.

b. One-Year and Six-Year Absolute Dollar Changes Compared

The discussion above focused on percentage increases in tuition/fees over a six-year period of time. These relative changes can be viewed in the context of the absolute increases in average charges, over both the short (one-year) and longer (six-year) terms. Table 4 summarizes these data for full-time undergraduates (both resident and non-resident) by collegiate sector. Similar comparisons for the other student types can be derived from data in Appendix Tables 17 through 24.

Table 4

One-Year and Six-Year Increases in Average Annual Tuition and Required Fees For Full-Time Undergraduates, by Collegiate Sector

	Resident			Non-Resident		
	$ Changes		One-Year % of	$ Changes		One-Year % of
	One-Year	Six-Year	Six-Year	One-Year	Six-Year	Six-Year
Community Colleges	$ 18	$ 157	11.5%	$ 18	$ 369	4.9%
State Colleges	119	318	37.4	122	257	47.5
Rutgers University	304	689	44.9	550	1,295	42.5
N.J.I.T.	446	816	54.7	702	1,422	49.4
Independent Colleges	613	2,132	28.8	613	2,132	28.8

[9]In November 1982, the Board of Higher Education authorized an increase in this maximum annual charge. However, any college actions to increase tuition will not take effect until spring 1982. Consequently, data shown in this report, which are as of fall 1982, do not represent final 1982-83 figures for the community college sector. Therefore, discussions of county college tuition data in this report are presented for purposes of illustration only.

Two trends can be observed from the data in Table 4. One is that, for the public senior institutional sectors, the most recent increases contributed substantially to the overall increases for the six-year period. This is illustrated most dramatically at N.J.I.T., where the one-year increase for resident full-time undergraduates ($446) was more than one-half (55%) the size of the six-year increase ($816). This contrasts with the cases in the community and independent college sectors. The $18 increase between 1981-82 and 1982-83 in the county college sector average represents only about 12% of the $157 six-year increase. The independent sector's average increased by $613 in one year, or 29% of the total $2,132 increase between 1977-78 and 1982-83.

II. SIGNIFICANCE OF HISTORICAL TRENDS

Present levels of tuition and required fees in New Jersey colleges and universities, as well as other economic changes during the past six years, can be examined from several perspectives. For example, student charges in the different collegiate sectors have increased at different rates. These relative shifts have implications for New Jersey colleges with respect to both policy and mission. Furthermore, increases in the "price" of higher education can be considered in relation to other price increases, and in relation to students' ability to pay.

a. New Jersey Collegiate Sector Comparisons

As noted above (in Section I-a), the long-term rate of growth since 1977-78 in average annual tuition and required fees has been lower for students at public senior colleges than for students at the independents. Consequently, in 1982-83, average charges for the independent sector exceeded the average for the public sector by a greater margin than in 1977-78, with the exception of those for state resident full-time graduate students. The result is a slightly increased, but stabilizing, price advantage (compared with New Jersey independent colleges) of public higher education in New Jersey. This is illustrated in Tables 5 and 6 which show,

for residents and non-residents, respectively, the ratio of average independent sector to average public senior sector tuition/fees in each year from 1977-78 through 1982-83. (The "price advantage" of public colleges is represented by the size of the ratio; thus, the higher the tuition differential between the two sectors, the larger the ratio, and the greater the "advantage".)

Table 5

Ratio of Independent/Public Senior Sector Average Annual Tuition and Required Fees For State Residents, By Student Type: 1977-78 Through 1982-83

	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Full-Time Undergraduate	3.3/1	3.5/1	3.7/1	3.8/1	3.8/1	3.7/1
Part-Time Undergraduate	2.9/1	3.0/1	3.3/1	3.3/1	3.2/1	3.2/1
Full-Time Graduate	2.7/1	2.9/1	3.0/1	2.9/1	2.9/1	2.7/1
Part-Time Graduate	2.1/1	2.2/1	2.3/1	2.3/1	2.3/1	2.3/1

Table 6

Ratio of Independent/Public Senior Sector Average Annual Tuition and Required Fees For Non-Residents, By Student Type: 1977-78 Through 1982-83

	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Full-Time Undergraduate	1.8/1	1.9/1	2.0/1	2.1/1	2.1/1	2.0/1
Part-Time Undergraduate	1.6/1	1.7/1	1.8/1	2.0/1	2.0/1	2.0/1
Full-Time Graduate	1.9/1	2.1/1	2.1/1	2.1/1	2.1/1	2.0/1
Part-Time Graduate	1.5/1	1.6/1	1.7/1	1.7/1	1.7/1	1.7/1

The largest ratio in 1982-83 (3.7/1) is for in-state full-time undergraduates, for whom the independent sector average is nearly four times the public sector's ($5,034 compared with $1,352). This

ratio is higher than it was in 1977-78 (3.3/1) but is down slightly from 1981-82, when it was 3.8/1. The smallest ratio in the current year is for part-time graduate students from out of state, who are charged in the independent sector, on the average, 1.7 times as much as in the public sector. This ratio has been constant since 1979-80 and is only slightly higher than in 1977-78.[10]

It is evident also from both Tables 5 and 6 that the differential between the sectors in the average tuition/fees for some types of students has not increased during the past several years, and for others has even declined. In fact, for state resident full-time graduate students, the differential returned in 1982-83 to its 1977-78 level (2.7/1). If recent trends in public senior sector tuition increases continue, i.e., greater annual percentage increases than was true in past years, then it is possible that their price "advantage" may decrease.[11]

The price differential between the public senior institutions and the community colleges also has widened in recent years (see Table 7). Specifically, the current ratio for full-time undergraduates, 2.0/1, is up from its level of six years ago (1.7/1), which was constant through 1980-81. However, it should be kept in mind that the tuition data for the community college sector available at the time this publication was prepared do not reflect any increases, effective in the spring semester of the 1982-83 academic year, that may occur as a result of the increase in the community college tuition ceiling authorized by the Board of Higher Education in November 1982. In fall 1982, all but four of the 17 county colleges were at or very close to the previously established maximum. It is likely that at least eight of these colleges will increase their tuition

[10]The data in these two examples illustrate the fact that, irrespective of student type, the price differential is much greater for state residents than for non-residents. This is a function of the resident/non-resident tuition differential that exists in the public sector such that out-of-state students attending New Jersey public colleges and universities pay higher rates than do in-state students.

[11]Exclusion of tuition data for Princeton University does not affect the trends observed, but does lower the numerical values of the ratios. For example, the independent/public ratio for state residents full-time undergraduates grows from 3.0/1 to 3.3/1, instead of from 3.3/1 to 3.7/1 as shown in Table 5.

up to the new maximum. While this would raise the 1982-83 sector average for resident full-time undergraduates to $683 (from $669), the differential between four-year and two-year public colleges would remain approximately 2 to 1. (The original ratio was 2.02/1; the "new" one would be 1.98/1.) A public senior/community college tuition differential that is maintained, even if not widened further, would permit community colleges to continue providing a relatively low-cost alternative route to a college education in New Jersey.

Table 7

Ratio of Public Senior/Community College Sector Average Annual Tuition/Required Fees For Residents*, by Undergraduate Student Type: 1977-78 Through 1982-83

	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Full-Time Undergraduate	1.7/1	1.7/1	1.7/1	1.7/1	1.8/1	2.0/1
Part-Time Undergraduate	1.4/1	1.4/1	1.5/1	1.5/1	1.5/1	1.6/1

*"Resident" means state resident for public senior colleges, and county resident for community colleges.

b. Trends in Relation to Measures of Inflation

The increases in tuition and required fees at New Jersey colleges since 1977-78 can be compared with measures of inflation during the same period of time. For the purposes of this analysis, the tuition data were restricted to one type of student -- resident full-time undergraduates. Figure 1 (page 12) depicts the cumulative percent increases in tuition/fees for these students in each of the four New Jersey collegiate sectors,[12] each year from 1977-78 to 1982-83, along with increases during the

[12]Sectors shown are: Rutgers/N.J.I.T. (whose data were averaged for purposes of the graphic illustration in Figure 1, since their tuition rates and policies are similar), independent colleges, state colleges, and community colleges.

same period of time in the Consumer Price Index (CPI) for New Jersey[13] and in the Higher Education Price Index (HEPI).[14]

As illustrated in Figure 1, and contrary to the trend up until the current academic year, the largest cumulative percentage rise in resident full-time undergraduate charges occurred in the public sector -- Rutgers/N.J.I.T., where the six-year increase was 76%. This rate of increase was slightly higher than that which obtained for the independent sector (73%), and about two-and-one-half times the smallest increase -- 31% (for community colleges).[15] As a result of the marked increase in 1982-83 for Rutgers/N.J.I.T., the overall six-year increase both for these institutions and for the independent sector exceeded the rate of inflation, as measured by an estimated 52% increase in the CPI for New Jersey, over the same period. Prior to the current year, cumulative increases in public sector tuition/fees did not ever exceed the rise in the cost of living. However, beginning in 1980-81, the one-year increases for Rutgers/N.J.I.T. have been greater than the one-year CPI increases.

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[13]The average of the CPIs for Philadelphia/Camden and New York City/Northeast New Jersey was used as a proxy for the New Jersey CPI for which there is no separate Index. A fiscal year CPI is computed as the average of the values for each month of the fiscal year; i.e., for July through the following June. At the time this report was being prepared, CPI data for the current year (1982-83) were available for July, August, September, and October. The Index for the entire 1982-83 fiscal year was estimated based on the average relationship for the past five years between fiscal year and July-October average CPIs. Source of CPI data: "Handbook of Basic Economic Statistics", Economic Statistics Bureau, Washington, D.C.

[14]"Higher Education Prices and Price Indexes, 1982 Update", Research Associates of Washington, Washington, D.C., 1982. Since the 1982-83 HEPI data will not be available until next year, Figure 1 displays two HEPI values for 1982-83, based on different assumptions regarding the possible rates of increase over 1981-82. If the increase equals the average rate of increase during the past five years (9.0%), the 1982-83 HEPI will be 157.2. If the increase equals the 10-year average rate (7.9%), the 1982-83 value will be 155.6.

[15]As noted earlier, final tuition data for the community college sector for 1982-83 are not available at this writing. However, even in the unlikely event that every college in the sector raised tuition for the spring 1983 semester to the new ceiling, the resultant 1982-83 average ($625 per year, plus not more than $93.75 in fees) would represent a six-year increase (40%) just slightly higher than the state college sector's increase of 38%.

Figure 1.

Cumulative Percentage Increases Since 1977-78 in Resident
Full-Time Undergraduate Tuition/Required Fees
in N.J. Collegiate Sectors
(Compared With CPI/HEPI)

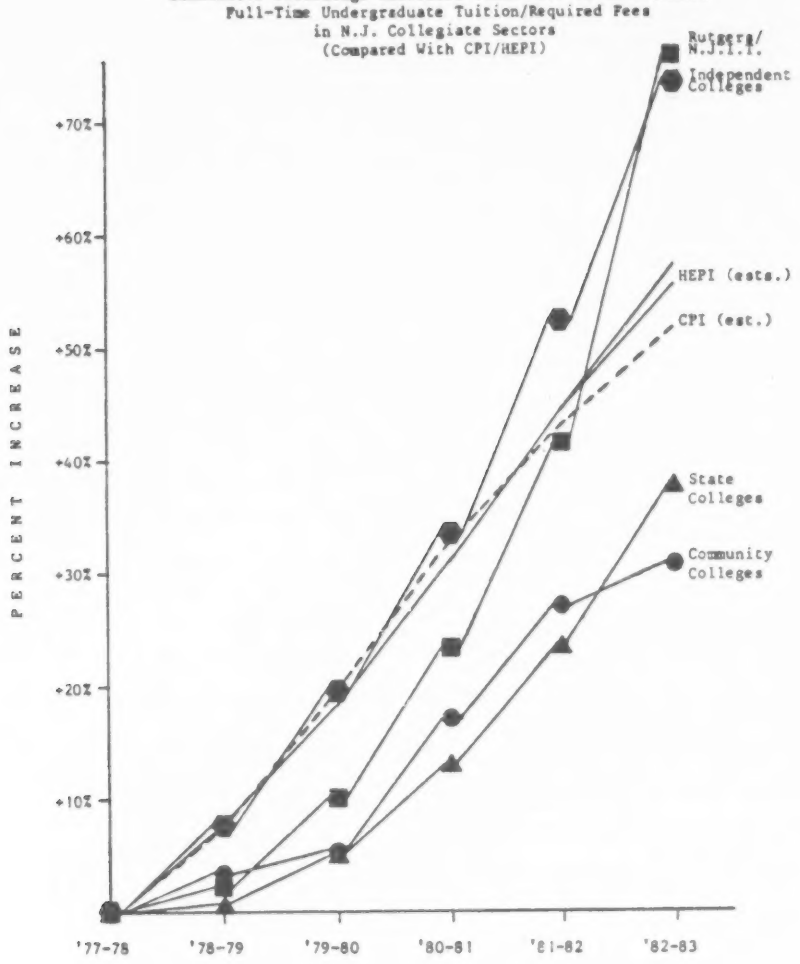
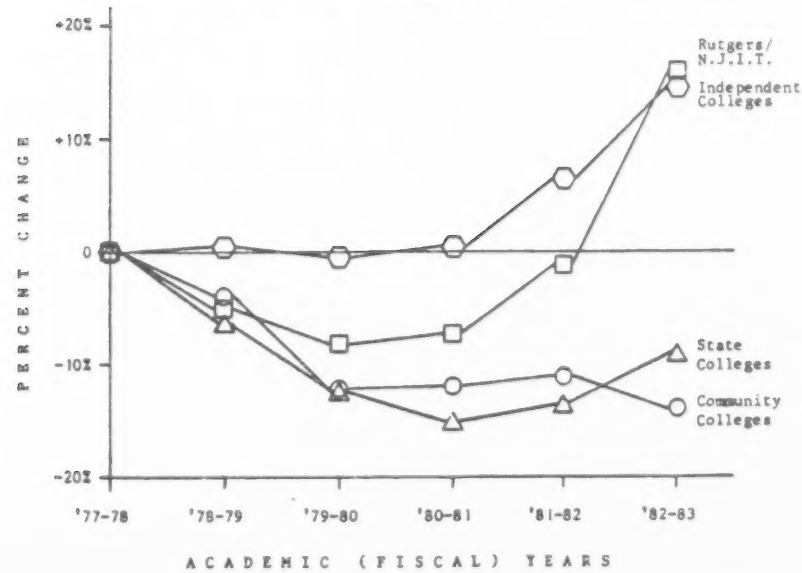


Figure 2.

Cumulative Percentage Changes Since 1977-78 in Resident
Full-Time Undergraduate Tuition/Required Fees
in N.J. Collegiate Sectors
(Constant $)



It is interesting to note that independent sector increases for graduate students (not depicted in Figure 1) were lower, and closer to the inflation rate. In contrast, the current year's increases at Rutgers and N.J.I.T. for graduate students were even higher than those for undergraduates. While the "price" (charged to the student) of public higher education in New Jersey in past years compared favorably to changes in the price of goods and services in general, this favorable comparison was not uniform within the public sector or among student types, and has ceased to hold true in a part of the public sector (Rutgers/N.J.I.T.).

The Higher Education Price Index (HEPI), another guage of relative cost increases, was designed expressly to measure changes in the price of goods and services purchased by colleges and universities. As can be seen from Figure 1, increases in HEPI have paralleled very closely increases in the New Jersey CPI up until the current year, when it is estimated that HEPI may exceed the CPI. Nevertheless, the trend in HEPI serves to illustrate further the above-noted comparisons between tuition and other price increases.

It can be seen from Figure 1 that the increases in student charges in recent years, but especially in 1982-83, have been particularly steep compared with the more moderate growth of earlier years. The impact of rising inflation in relation to changes in tuition and required fees in the four New Jersey collegiate sectors is depicted more clearly in Figure 2 (page 12). As the graph shows, student charges in the state and community college sectors actually declined between 1977-78 and 1982-83 in "real" or "constant dollar" terms.[16] In contrast, average annual tuition/fees charges in the independent sector (and at Rutgers/N.J.I.T. in the current year) have risen, even taking into account the effects of inflation. (See Figure 2.)

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[16] For each academic year, current dollars were converted to constant dollars by dividing the tuition/fees charges by the NJCPI for the corresponding fiscal year, and then multiplying the result by 100. The cumulative percentage change of each year's constant dollar tuition/fees over 1977/78 was then calculated.

c. Tuition and Fees and Ability to Pay

When present tuition/fees levels are compared with those of six years ago, the increases in the New Jersey public collegiate sectors seem commensurate, in varying degrees, with students' ability to pay for them as measured by increases in family and personal income. The median family income of college-bound New Jersey high school seniors grew by 52% between 1977 and 1982.[17] This rise exceeded substantially the percentage increases in resident full-time undergraduate charges in the state and community college sectors (38% and 31%, respectively), but fell below the more than 70% increases in the independent sector and at Rutgers/N.J.I.T. Comparisons with increases in other income measures yield similar results; e.g., estimates by the Office of Research and Manpower indicate that personal disposable income per capita and total income per capita rose approximately 62% and 64%, respectively, from 1977 to 1982.[18]

Maximum Tuition Aid Grant (TAG) awards, i.e., those granted to the neediest full-time undergraduate students, have risen along with tuition increases. However, since the dollar levels of these awards in each public collegiate sector are generally pegged to the previous year's tuition charges, the steep 1982-83 increase for Rutgers/N.J.I.T. has not been matched as closely with an award ceiling increase as in the past. The maximum TAG award for students at New Jersey independent colleges has grown from $1,000 to $1,500 over the six-year period, with a $100 increase occurring in the most recent year.

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[17]Source: "New Jersey College-Bound Seniors, 1977" and "New Jersey College-Bound Seniors, 1982", College Entrance Examination Board, 1977 and 1982. Data are for potential college enrolleees in academic years 1977-78 and 1982-83, respectively.

[18]Source: N.J. Dept. of Labor, Office of Demographic and Economic Analysis, "New Jersey Personal Income, 1969-1980", June 1982 (for 1977 through 1980). Figures for 1981 are from an unpublished ODEA report. Figures for 1982 were estimated using logarithmic growth functions. Personal disposable income is defined as personal income less federal, state, and local government taxes, as well as non-tax payments to governments.

Increases in these measures of the ability to afford college (such as gains in family and per capita income), in conjunction with increased financial aid, suggest that, overall, higher education in the state remains a relatively affordable "commodity". However, if future tuition increases exceed the inflation rate (as was the case this year for Rutgers/N.J.I.T.) the degree of affordability may be reduced. Although, clearly, factors other than cost (either absolute or relative) affect the financial accessibility of a collegiate education to New Jersey residents, a more sophisticated analysis of all the possible variables related to this issue is beyond the scope of the present report. Nevertheless, the general conclusions drawn here regarding the affordability of higher education in the state seem reasonable within the limitations of the measures cited and given the purposes of this report.

A P P E N D I X

Table 1

AVERAGE ANNUAL
RESIDENT (IN-STATE) FULL-TIME UNDERGRADUATE TUITION AND REQUIRED FEES AT N.J. PUBLIC FOUR-YEAR COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Public Four-Year Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
U.M.D.N.J. (SHRP)[1]	$ 400	$ 400	$ 500	$ 550	$ 657	$ 657
N.J. Institute of Technology	890	890	982	1,090	1,260	1,706
AVERAGE, RUTGERS UNIVERSITY	927	949	1,021	1,146	1,312	1,616
Glassboro State College	858	858	896	963	1,038	1,164
Jersey City State College	870	870	923	945	1,025	1,115
Kean College of New Jersey	780	780	810	870	1,020	1,170
Montclair State College	840	875	895	976	1,058	1,200
Ramapo College of New Jersey	816	816	891	974	1,063	1,184
Stockton State College	795	795	825	915	1,065	1,155
Trenton State College	866	866	896	971	1,031	1,149
Wm. Paterson College of N.J.	867	867	915	975	1,027	1,117
AVERAGE, STATE COLLEGES[2]	840	846	883	950	1,039	1,158
AVERAGE, PUBLIC FOUR-YEAR COLLEGES & UNIVERSITIES[2]	$ 873	$ 886	$ 938	$1,028	$1,150	$1,352

Source: N.J. HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Full-time" is defined here as 30 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 30 to derive the annual figure.

[1]Average annual tuition/fees at the School of Health-Related Professions vary according to lower/upper division and program of study. Data shown are for the school's free-standing certificate programs, at the lower division level, of two semester's duration. (By contrast, two semesters of an upper division program, in 1982-83, for example, would cost $864, compared with the $657 shown in the table.) Students enrolled in programs sponsored jointly by the school and other New Jersey colleges pay tuition/fees to those other institutions. Due to the unique character of U.M.D.N.J.-S.H.R.P., and the wide variation in its tuition charges, the data are not included in the sector averages.

[2]Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of N.J. resident full-time undergraduates at each institution.

Table 2

AVERAGE ANNUAL
RESIDENT (IN-COUNTY) FULL-TIME UNDERGRADUATE TUITION AND REQUIRED FEES AT N.J. COMMUNITY COLLEGES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Community Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Atlantic Community College	$ 474	$ 574	$ 574	$ 592	$ 640	$ 690
Bergen Community College	575	575	575	632	690	690
Brookdale Community College	474	524	524	574	610	690
Burlington County College	545	575	575	632	690	690
Camden County College	444	444	444	494	494	574
Cumberland County College	505	545	545	595	645	636
Essex County College	535	540	545	632	690	690
Gloucester County College	480	505	530	580	600	600
Hudson County Commission	490	490	520	520	580	580
Mercer County Comm. College	450	520	520	550	640	640
Middlesex County College	444	466	496	600	680	680
Morris, County College of	524	524	574	632	640	690
Ocean County College	563	563	563	628	690	690
Passaic County Comm. College	550	590	590	632	690	690
Salem Community College	535	540	540	600	682	690
Somerset County College	460	462	495	630	690	690
Union College	620	575	575	632	690	690
AVERAGE, COMMUNITY COLLEGES*	$ 512	$ 529	$ 539	$ 600	$ 651	$ 669

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Full-time" is defined here as 30 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 30 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of county resident full-time undergraduates at each institution.

Table 3

AVERAGE ANNUAL
NON-RESIDENT (OUT-OF-STATE) FULL-TIME UNDERGRADUATE TUITION AND REQUIRED FEES AT N.J. PUBLIC FOUR-YEAR COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Public Four-Year Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
U.M.D.N.J. (SHRP)[1]	$ 800	$ 800	$1,000	$1,100	$1,257	$1,257
N.J. Institute of Technology	1,650	1,650	1,814	2,030	2,370	3,072
AVERAGE, RUTGERS UNIVERSITY	1,687	1,709	1,853	2,086	2,432	2,982
Glassboro State College	1,518	1,518	1,556	1,563	1,638	1,764
Jersey City State College	1,530	1,530	1,583	1,545	1,625	1,715
Kean College of New Jersey	1,440	1,440	1,470	1,470	1,620	1,770
Montclair State College	1,500	1,535	1,555	1,576	1,658	1,800
Ramapo College of New Jersey	1,476	1,476	1,551	1,574	1,663	1,784
Stockton State College	1,455	1,455	1,485	1,515	1,665	1,755
Trenton State College	1,526	1,526	1,556	1,571	1,631	1,749
Wm. Paterson College of N.J.	1,527	1,527	1,575	1,575	1,627	1,717
AVERAGE, STATE COLLEGES[2]	1,502	1,509	1,536	1,550	1,637	1,759
AVERAGE, PUBLIC FOUR-YEAR COLLEGES & UNIVERSITIES[2]	$1,609	$1,620	$1,733	$1,824	$2,098	$2,475

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Full-time" is defined here as 30 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 30 to derive the annual figure.

[1]Average annual tuition/fees at the School of Health-Related Professions vary according to lower/upper division and program of study. Data shown are for the school's free-standing certificate programs, at the lower division level, of two semesters duration. Students enrolled in programs sponsored jointly by the school and other New Jersey colleges pay tuitions/fees to those other institutions. Due to the unique character of U.M.D.N.J.-S.H.R.P., and the wide variation in their tuition charges, their data are not included in the sector averages.

[2]Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of non-New Jersey full-time undergraduates at each institution.

Table 4

AVERAGE ANNUAL
NON-RESIDENT (OUT-OF-STATE) FULL-TIME UNDERGRADUATE TUITION AND REQUIRED FEES AT N.J. COMMUNITY COLLEGES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Community Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Atlantic Community College	$2,102	$2,274	$1,874	$2,662	$2,880	$2,821
Bergen Community College	2,075	2,075	2,075	2,282	2,490	2,490
Brookdale Community College	1,824	2,024	2,024	2,224	2,260	2,490
Burlington County College	2,085	2,115	2,115	2,302	2,310	2,310
Camden County College	1,604	1,604	1,604	1,994	1,994	2,014
Cumberland County College	1,705	1,745	1,745	2,295	2,295	2,436
Essex County College	2,035	2,040	2,045	2,282	2,490	2,490
Gloucester County College	2,010	2,388	2,590	3,090	3,090	3,090
Hudson County Commission	890	970	970	970	1,090	1,090
Mercer County Comm. College	1,550	1,540	1,540	1,690	1,840	1,840
Middlesex County College	1,644	1,756	1,876	2,250	2,480	2,480
Morris, County College of	1,794	1,924	2,053	2,182	2,400	2,490
Ocean County College	2,063	2,063	2,063	2,278	2,490	2,490
Passaic County Comm. College	1,900	2,090	2,090	1,582	1,725	1,725
Salem Community College	1,535	1,540	1,540	800	782	890
Somerset County College	1,720	1,722	1,860	2,280	2,610	2,490
Union College	1,620	1,575	1,575	2,282	2,490	2,490
AVERAGE, COMMUNITY COLLEGES*	$1,721	$1,639	$1,862	$1,930	$2,072	$2,090

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Full-time" is defined here as 30 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 30 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of non-New Jersey full-time undergraduates at each institution.

Table 5

AVERAGE ANNUAL
RESIDENT (IN-STATE) PART-TIME UNDERGRADUATE TUITION AND REQUIRED FEES AT N.J. PUBLIC FOUR-YEAR COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Public Four-Year Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
N.J. Institute of Technology	$ 356	$ 356	$ 384	$ 432	$ 504	$ 603
AVERAGE, RUTGERS UNIVERSITY	346	353	378	426	505	621
Glassboro State College	343	343	358	385	415	466
Jersey City State College	348	348	360	384	418	454
Kean College of New Jersey	297	297	309	333	429	477
Montclair State College	312	342	364	398	445	487
Ramapo College of New Jersey	326	326	356	389	425	473
Stockton State College	318	318	330	366	426	462
Trenton State College	348	348	360	390	414	460
Wm. Paterson College of N.J.	321	321	333	357	393	429
AVERAGE, STATE COLLEGES*	325	329	344	372	422	465
AVERAGE, PUBLIC FOUR-YEAR COLLEGES & UNIVERSITIES*	$ 332	$ 337	$ 354	$ 388	$ 445	$ 509

Source: N.J. HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Part-time" is defined here as 12 credit horus per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of N.J. resident part-time undergraduates at each institution.

Table 6

AVERAGE ANNUAL
RESIDENT (IN-COUNTY) PART-TIME UNDERGRADUATE TUITION AND REQUIRED FEES AT N.J. COMMUNITY COLLEGES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Community Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Atlantic Community College	$ 238	$ 266	$ 266	$ 246	$ 300	$ 357
Bergen Community College	270	270	270	276	345	345
Brookdale Community College	237	237	264	264	282	309
Burlington County College	222	234	234	258	288	336
Camden County College	212	212	212	194	194	228
Cumberland County College	252	270	270	270	270	318
Essex County College	271	266	277	286	342	342
Gloucester County College	240	240	240	240	240	240
Hudson County Commission	190	214	214	214	238	238
Mercer County Comm. College	216	208	208	220	256	256
Middlesex County College	204	204	204	261	312	336
Morris, County College of	220	220	220	280	288	345
Ocean County College	228	228	228	288	317	345
Passaic County Comm. College	290	276	276	276	345	345
Salem Community College	260	270	270	292	351	354
Somerset County College	226	234	230	262	290	345
Union College	280	276	276	288	345	345
AVERAGE, COMMUNITY COLLEGES*	235	237	240	259	292	316

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", Fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of county resident part-time undergraduates at each institution.

Table 7

AVERAGE ANNUAL
NON-RESIDENT (OUT-OF-STATE) PART-TIME UNDERGRADUATE TUITION AND REQUIRED FEES AT N.J. PUBLIC FOUR-YEAR COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Public Four-Year Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
N.J. Institute of Technology	$ 668	$ 668	$ 720	$ 816	$ 960	$1,167
AVERAGE, RUTGERS UNIVERSITY	658	665	714	810	961	1,185
Glassboro State College	607	607	622	625	655	706
Jersey City State College	612	612	624	624	658	694
Kean College of New Jersey	561	561	573	573	669	717
Montclair State College	576	606	628	638	685	727
Ramapo College of New Jersey	590	590	620	629	665	713
Stockton State College	582	582	594	606	666	702
Trenton State College	612	612	624	630	654	700
Wm. Paterson College of N.J.	585	585	597	597	633	669
AVERAGE, STATE COLLEGES*	598	600	615	623	663	708
AVERAGE, PUBLIC FOUR-YEAR COLLEGES & UNIVERSITIES*	$ 615	$ 612	$ 633	$ 659	$ 730	$ 815

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of non-New Jersey part-time undergraduates at each institution.

Table 8

AVERAGE ANNUAL
NON-RESIDENT (OUT-OF-STATE) PART-TIME UNDERGRADUATE TUITION AND REQUIRED FEES AT N.J. COMMUNITY COLLEGES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Community Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Atlantic Community College	$1,006	$1,028	$ 866	$1,074	$1,200	$1,209
Bergen Community College	990	990	990	996	1,245	1,245
Brookdale Community College	912	687	1,020	1,020	1,038	1,137
Burlington County College	834	846	846	924	924	924
Camden County College	794	794	794	794	794	804
Cumberland County College	846	870	870	918	918	1,218
Essex County College	1,027	1,022	1,033	1,042	1,200	1,242
Gloucester County College	1,008	1,188	1,296	1,236	1,236	1,236
Hudson County Commission	370	394	394	394	442	442
Mercer County Comm. College	624	616	616	676	736	736
Middlesex County College	780	780	780	981	1,140	1,236
Morris, County College of	688	748	796	880	960	1,005
Ocean County College	840	684	684	852	1,145	1,245
Passaic County Comm. College	1,010	996	636	636	690	690
Salem Community College	860	870	870	352	411	414
Somerset County College	874	882	878	946	1,046	1,245
Union College	820	816	816	1,044	1,245	1,245
AVERAGE, COMMUNITY COLLEGES*	$ 793	$ 726	$ 772	$ 840	$ 912	$ 921

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of non-New Jersey part-time undergraduates at each institution.

Table 9

AVERAGE ANNUAL
RESIDENT (IN-STATE) FULL-TIME GRADUATE TUITION AND REQUIRED FEES AT N.J. PUBLIC COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Public Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
U.M.D.N.J. (Biomed. Sciences)	$1,090	$1,090	$1,194	$1,348	$1,647	$2,011
N.J. Institute of Technology	1,134	1,134	1,242	1,396	1,638	2,284
AVERAGE, RUTGERS UNIVERSITY	1,212	1,236	1,338	1,496	1,741	2,126
Glassboro State College	1,178	1,178	1,208	1,310	1,418	1,591
Jersey City State College	1,248	1,248	1,272	1,368	1,482	1,626
Kean College of New Jersey	1,140	1,140	1,164	1,260	1,440	1,608
Montclair State College	1,176	1,188	1,232	1,349	1,492	1,636
Trenton State College	1,154	1,190	1,214	1,322	1,418	1,584
Wm. Paterson College of N.J.	1,194	1,194	1,218	1,314	1,434	1,578
AVERAGE, STATE COLLEGES*	1,173	1,186	1,212	1,321	1,455	1,608
AVERAGE, PUBLIC COLLEGES & UNIVERSITIES*	$1,200	$1,222	$1,305	$1,454	$1,678	$2,027

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Full-time" is defined here as 24 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 24 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of full-time graduate students at each institution.

Table 10

AVERAGE ANNUAL
NON-RESIDENT (OUT-OF-STATE) FULL-TIME GRADUATE TUITION AND REQUIRED FEES AT N.J. PUBLIC COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Public Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
U.M.D.N.J. (Biomed. Sciences)	$1,560	$1,560	$1,710	$1,932	$2,349	$2,867
N.J. Institute of Technology	1,614	1,614	1,768	1,990	2,340	3,140
AVERAGE, RUTGERS UNIVERSITY	1,692	1,716	1,864	2,090	2,443	2,982
Glassboro State College	1,658	1,658	1,688	1,790	1,898	2,071
Jersey City State College	1,728	1,728	1,752	1,848	1,962	2,106
Kean College of New Jersey	1,620	1,620	1,644	1,740	1,920	2,088
Montclair State College	1,656	1,668	1,712	1,829	1,972	2,116
Trenton State College	1,634	1,670	1,694	1,802	1,898	2,064
Wm. Paterson College of N.J.	1,674	1,674	1,698	1,794	1,914	2,058
AVERAGE, STATE COLLEGES*	1,653	1,666	1,692	1,801	1,935	2,088
AVERAGE, PUBLIC COLLEGES & UNIVERSITIES*	$1,680	$1,702	$1,821	$2,024	$2,335	$2,807

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Full-time" is defined here as 24 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 24 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of full-time graduate students at each institution.

Table 11

AVERAGE ANNUAL
RESIDENT (IN-STATE) PART-TIME GRADUATE TUITION AND REQUIRED FEES AT N.J. PUBLIC COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THORUGH 1982-83

Public Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
U.M.D.N.J. (Biomed. Sciences)	$ 540	$ 540	$ 600	$ 684	$ 816	$1,008
N.J. Institute of Technology	594	594	658	742	874	1,047
AVERAGE, RUTGERS UNIVERSITY	575	583	644	727	862	1,059
Glassboro State College	589	589	604	655	709	796
Jersey City State College	624	624	636	684	732	804
Kean College of New Jersey	570	570	582	630	750	834
Montclair State College	588	594	616	674	751	823
Trenton State College	578	596	608	662	710	792
Wm. Paterson College of N.J.	597	597	609	657	714	789
AVERAGE, STATE COLLEGES*	589	594	609	661	731	809
AVERAGE, PUBLIC COLLEGES & UNIVERSITIES*	$ 584	$ 590	$ 625	$ 689	$ 789	$ 918

Source: NJ HEGIS Form #104xx, "Tuitions and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

* Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of part-time graduate students at each institution.

Table 12

AVERAGE ANNUAL
NON-RESIDENT (OUT-OF-STATE) PART-TIME GRADUATE TUITION AND REQUIRED FEES AT N.J. PUBLIC COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Public Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
U.M.D.N.J. (Biomed. Sciences)	$ 780	$ 780	$ 864	$ 984	$1,164	$1,452
N.J. Institute of Technology	834	834	922	1,042	1,222	1,491
AVERAGE, RUTGERS UNIVERSITY	815	823	908	1,027	1,210	1,503
Glassboro State College	829	829	844	895	949	1,036
Jersey City State College	864	864	876	924	1,026	1,044
Kean College of New Jersey	810	810	822	870	990	1,074
Montclair State College	828	834	856	914	991	1,063
Trenton State College	818	836	848	902	950	1,032
Wm. Paterson College of N.J.	837	837	849	897	954	1,029
AVERAGE, STATE COLLEGES*	829	834	849	901	979	1,049
AVERAGE, PUBLIC COLLEGES & UNIVERSITIES*	$ 824	$ 828	$ 875	$ 955	$1,080	$1,247

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and f-es that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

* Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of part-time graduate students at each institution.

Table 13

AVERAGE ANNUAL
FULL-TIME UNDERGRADUATE TUITION AND REQUIRED FEES AT N.J.
INDEPENDENT COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Independent Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Assumption College	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200
Beth Medrash Govoha	1,180	1,200	1,800	2,100	2,350	2,350
Bloomfield	2,540	2,710	3,110	3,510	4,080	4,470
Caldwell College	2,100	2,250	2,570	2,745	3,228	3,543
Centenary College	2,600	2,800	3,150	3,520	3,825	4,096
Don Bosco College	2,660	2,660	2,660	2,920	3,212	2,920
Drew University	3,565	3,865	4,330	4,890	5,780	6,650
F.D.U., Edward Wms. College	2,348	2,520	2,770	3,077	3,518	3,982
F.D.U., Madison Campus	2,708	2,900	3,180	3,524	3,991	4,523
F.D.U., Rutherford Campus	2,663	2,856	3,130	3,472	3,930	4,450
F.D.U., Teaneck Campus	2,663	2,856	3,130	3,467	3,925	4,455
Felician College	1,620	1,775	2,075	2,225	2,435	2,735
Georgian Court College	2,218	2,318	2,468	2,675	2,870	3,275
Monmouth College	3,060	3,290	3,530	3,984	4,580	5,182
Northeastern Bible College	1,958	2,108	2,258	2,530	2,930	3,360
Princeton University	4,650	5,100	5,585	6,300	7,250	8,380
Rabbinical College	1,650	2,150	2,350	2,350	3,000	3,000
Rider College	2,550	2,750	2,950	3,250	3,600	4,000
St. Elizabeth, College of	2,508	2,634	2,826	3,201	3,550	4,230
St. Peter's College	2,268	2,508	2,658	2,972	3,318	3,684
Seton Hall University	2,460	2,545	3,160	3,448	3,885	4,496
Stevens Inst. of Technology	3,700	4,025	4,325	4,875	5,575	6,600
Upsala College	2,880	3,216	3,536	3,917	4,347	4,808
Westminster Choir College	3,185	3,385	3,664	4,160	4,750	5,310
AVERAGE, INDEPENDENT COLLEGES & UNIVERSITIES*	$2,902	$3,128	$3,475	$3,873	$4,421	$5,034

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Full-time" is defined here as 30 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 30 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of full-time undergraduates at each institution.

Table 14

AVERAGE ANNUAL
PART-TIME UNDERGRADUATE TUITION AND REQUIRED FEES AT N.J.
INDEPENDENT COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Independent Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Assumption College	$ 240	$ 360	$ 360	$ 360	$ 360	$ 600
Beth Medrash Govoha	606	626	926	1,082	1,152	1,202
Bloomfield College	952	1,012	1,175	1,330	1,542	1,686
Caldwell College	790	860	970	1,100	1,260	1,395
Centenary College	960	840	900	1,056	1,056	1,176
Drew University	1,754	1,874	2,126	2,402	2,834	3,286
F.D.U., Edward Wms. College	1,020	1,092	1,200	1,332	1,512	1,716
F.D.U., Madison Campus	1,043	1,120	1,228	1,370	1,560	1,773
F.D.U., Rutherford Campus	1,037	1,114	1,224	1,358	1,548	1,757
F.D.U., Teaneck Campus	1,035	1,112	1,220	1,352	1,542	1,751
Felician College	650	710	830	890	950	1,070
Georgian Court College	740	800	860	920	982	1,100
Monmouth College	1,126	1,198	1,294	1,478	1,776	1,905
Northeastern Bible College	756	816	876	984	1,104	1,446
Rider College	744	768	1,212	1,356	1,500	1,596
St. Elizabeth, College of	910	970	1,042	1,138	1,322	1,550
St. Peter's College	864	936	996	1,116	1,248	1,392
Seton Hall University	966	1,020	1,220	1,348	1,525	1,720
Upsala College	700	745	805	897	981	1,423
Westminster Choir College	1,560	1,620	1,740	1,980	2,040	2,280
AVERAGE, INDEPENDENT COLLEGES & UNIVERSITIES*	$ 954	$1,019	$1,154	$1,286	$1,446	$1,631

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of part-time undergraduates at each institution.

Table 15

AVERAGE ANNUAL
FULL-TIME GRADUATE TUITION AND REQUIRED FEES AT N.J.
INDEPENDENT COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1982-83

Independent Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Beth Medrash Govoha	$1,180	$1,200	$1,800	$2,100	$2,000	$2,000
Drew University	3,525	3,825	4,280	4,830	5,710	6,580
F.D.U., Madison Campus	2,430	2,660	2,924	3,240	3,674	4,156
F.D.U., Rutherford Campus	2,440	2,656	2,920	3,232	3,674	4,145
F.D.U., Teaneck Campus	2,440	2,656	2,920	3,232	3,664	4,144
Georgian Court College	1,695	1,720	1,840	2,080	2,185	2,450
Immaculate Concep. Seminary	1,325	1,330	1,480	1,550	1,750	1,750
Monmouth College	2,278	2,494	2,689	3,028	3,516	3,978
New Brunswick Seminary	1,415	1,485	1,635	1,955	2,440	2,750
Princeton Seminary	1,958	2,220	2,220	2,475	2,475	2,725
Princeton University	4,750	5,200	5,685	6,400	7,350	8,480
Rider College	2,088	2,208	2,344	2,592	2,760	3,000
St. Peter's College	--	--	--	2,232	2,496	2,880
Seton Hall University	2,142	2,340	2,720	2,968	3,388	3,700
Stevens Inst. of Technology	2,420	2,620	2,820	3,170	3,620	4,270
Upsala College	2,040	2,040	2,160	2,400	2,775	3,072
Westminster Choir College	3,385	3,585	3,990	4,560	5,275	6,135
AVERAGE, INDEPENDENT COLLEGE & UNIVERSITIES*	$3,259	$3,504	$3,866	$4,197	$4,817	$5,496

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Full-time" is defined here as 24 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 24 to derive the annual figure.

*Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of full-time graduate students at each institution.

Table 16

AVERAGE ANNUAL
PART-TIME GRADUATE TUITION AND REQUIRED FEES AT N.J.
INDEPENDENT COLLEGES AND UNIVERSITIES: ACADEMIC YEARS 1977-78 THROUGH 1981-82

Independent Colleges	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83
Beth Medrash Goboha	$ 606	$ 626	$ 926	$1,082	$ 984	$1,034
Drew University	1,724	1,844	2,096	2,422	2,789	3,251
F.D.U., Madison Campus	1,230	1,352	1,484	1,644	1,862	2,104
F.D.U., Rutherford Campus	1,235	1,348	1,480	1,636	1,862	2,102
F.D.U., Teaneck Campus	1,235	1,348	1,480	1,636	1,852	2,092
Georgian Court College	855	880	940	1,060	1,105	1,250
Immaculate Concep. Seminary	805	800	920	950	950	950
Monmouth College	1,144	1,252	1,348	1,518	1,848	2,094
New Brunswick Seminary	785	755	875	1,055	940	1,130
Princeton Seminary	1,067	1,214	1,214	1,375	1,375	1,515
Rider College	1,004	1,104	1,172	1,296	1,380	1,500
St. Peter's College	--	--	--	1,116	1,248	1,440
Seton Hall University	1,086	1,170	1,360	1,484	1,715	1,888
Stevens Inst. of Technology	1,580	1,700	1,820	2,060	2,360	2,720
Upsala College	1,020	1,020	1,080	1,200	1,326	1,459
Westminster Choir College	1,860	1,890	2,220	2,520	2,820	3,240
AVERAGE, INDEPENDENT COLLEGES & UNIVERSITIES*	$1,199	$1,308	$1,446	$1,605	$1,830	$2,068

Source: NJ HEGIS Form #104xx, "Tuition and Required Fees Information", fall (xx) of each academic year.

"Required Fees" are those charges, in addition to tuition, which are required of virtually all students. They must be required of such a large proportion of all students that the student who does not pay is the exception.

"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

* Sector averages were calculated by weighting the tuition/required fee charges at each component institution in the sector with the enrollment of part-time graduate students at each institution.

Table 17

SUMMARY OF SECTOR AVERAGES:

AVERAGE ANNUAL RESIDENT (IN-STATE) FULL-TIME* UNDERGRADUATE TUITION AND REQUIRED FEES,

ACADEMIC YEARS 1977-78 THROUGH 1982-83

Sector	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	One-Year Changes (1982-3/1981-2) $	One-Year Changes (1982-3/1981-2) %	Six-Year Changes (1982-3/1977-8) $	Six-Year Changes (1982-3/1977-8) %
COMMUNITY COLLEGES	$ 512	$ 529	$ 539	$ 600	$ 651	$ 669	$ 18	2.8%	$ 157	30.7%
U.M.D.N.J. (S.H.R.P.)	400	400	500	550	657	657	--	--	257	64.3%
STATE COLLEGES	840	846	883	950	1,039	1,158	119	11.5%	318	37.9%
N.J.I.T.	890	890	982	1,090	1,260	1,706	446	35.4%	816	91.7%
RUTGERS UNIVERSITY	927	949	1,021	1,146	1,312	1,616	304	23.2%	689	74.3%
INDEPENDENT COLLEGES	2,902	3,128	3,475	3,873	4,421	5,034	613	13.9%	2,132	73.5%

*"Full-time " is defined here as 30 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied 30 to derive the annual figure.

Table 18

SUMMARY OF SECTOR AVERAGES:

AVERAGE ANNUAL NON-RESIDENT (OUT-OF-STATE) FULL-TIME* UNDERGRADUATE TUITION AND REQUIRED FEES,

ACADEMIC YEARS 1977-78 THROUGH 1982-83

Sector	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	One-Year Changes (1982-3/1981-2) $	One-Year Changes (1982-3/1981-2) %	Six-Year Changes (1982-3/1977-8) $	Six-Year Changes (1982-3/1977-8) %
COMMUNITY COLLEGES	$1,721	$1,639	$1,862	$1,930	$2,072	$2,090	$ 18	0.9%	$ 369	21.4%
U.M.D.N.J. (S,H.R.P.)	800	800	1,000	1,100	1,257	1,257	--	--	457	57.1%
STATE COLLEGES	1,502	1,509	1,536	1,550	1,637	1,759	122	7.5%	257	17.1%
N.J.I.T.	1,650	1,650	1,814	2,030	2,370	3,072	702	29.6%	1,422	86.2%
RUTGERS UNIVERSITY	1,687	1,709	1,853	2,086	2,432	2,982	550	22.6%	1,295	76.8%
INDEPENDENT COLLEGES	2,902	3,128	3,475	3,873	4,421	5,034	613	13.9%	2,132	73.5%

*"Full-time" is defined here as 30 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 30 to derive the annual figure.

Table 19

SUMMARY OF SECTOR AVERAGES:

AVERAGE ANNUAL RESIDENT (IN-STATE) PART-TIME* UNDERGRADUATE TUITION AND REQUIRED FEES,

ACADEMIC YEARS 1977-78 THROUGH 1982-83

Sector	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	One-Year Changes (1982-3/1981-2) $	One-Year Changes (1982-3/1981-2) %	Six-Year Changes (1982-3/1977-8) $	Six-Year Changes (1982-3/1977-8) %
COMMUNITY COLLEGES	$ 235	$ 237	$ 240	$ 259	$ 292	$ 316	$ 24	8.2%	$ 81	34.5%
STATE COLLEGES	325	329	344	372	422	465	43	10.2%	140	43.1%
N.J.I.T.	356	356	384	432	504	603	99	19.6%	247	69.4%
RUTGERS UNIVERSITY	346	353	378	426	505	621	116	23.0%	275	79.5%
INDEPENDENT COLLEGES	954	1,019	1,154	1,286	1,446	1,631	185	12.8%	677	71.0%

*"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

Table 20

SUMMARY OF SECTOR AVERAGES:

AVERAGE ANNUAL NON-RESIDENT (OUT-OF-STATE) PART-TIME* UNDERGRADUATE TUITION AND REQUIRED FEES,

ACADEMIC YEARS 1977-78 THROUGH 1982-83

							One-Year Changes (1982-3/1981-2)		Six-Year Changes (1982-3/1977-8)	
Sector	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	$	%	$	%
COMMUNITY COLLEGES	$ 793	$ 726	$ 772	$ 840	$ 912	$ 921	$ 9	1.9%	$ 128	16.1%
STATE COLLEGES	598	600	615	623	663	708	45	6.8%	110	18.4%
N.J.I.T.	668	668	720	816	960	1,167	207	21.6%	499	74.7%
RUTGERS UNIVERSITY	658	665	714	810	961	1,185	224	23.3%	527	80.1%
INDEPENDENT COLLEGES	954	1,019	1,154	1,286	1,446	1,631	185	12.8%	677	71.0%

*"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

Table 21

SUMMARY OF SECTOR AVERAGES:

AVERAGE ANNUAL RESIDENT (IN-STATE) FULL-TIME* GRADUATE TUITION AND REQUIRED FEES,

ACADEMIC YEARS 1977-78 THROUGH 1982-83

							One-Year Changes (1982-3/1981-2)		Six-Year Changes (1982-3/1977-8)	
Sector	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	$	%	$	%
U.M.D.N.J. (BIOMED. SCI.)	$1,090	$1,090	$1,194	$1,348	$1,647	$2,011	$ 364	22.1%	$ 921	84.5%
STATE COLLEGES	1,173	1,186	1,212	1,321	1,455	1,608	153	10.5%	435	37.1%
N.J.I.T.	1,134	1,134	1,242	1,396	1,638	2,284	646	39.4%	1,150	101.4%
RUTGERS UNIVERSITY	1,212	1,236	1,338	1,496	1,741	2,126	385	22.1%	914	75.4%
INDEPENDENT COLLEGES	3,259	3,504	3,866	4,197	4,817	5,496	679	14.1%	2,237	68.6%

*"Full-time" is defined here as 30 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 30 to derive the annual figure.

Table 22

SUMMARY OF SECTOR AVERAGES:

AVERAGE ANNUAL NON-RESIDENT (OUT-OF-STATE) FULL-TIME* GRADUATE TUITION AND REQUIRED FEES,

ACADEMIC YEARS 1977-78 THROUGH 1982-83

Sector	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	One-Year Changes (1982-3/1981-2) $	One-Year Changes (1982-3/1981-2) %	Six-Year Changes (1982-3/1977-8) $	Six-Year Changes (1982-3/1977-8) %
U.M.D.N.J. (BIOMED. SCI.)	$1,560	$1,560	$1,710	$1,932	$2,349	$2,867	$ 518	22.1%	$1,307	83.8%
STATE COLLEGES	1,653	1,666	1,692	1,801	1,935	2,088	153	7.9%	435	26.3%
N.J.I.T.	1,614	1,614	1,768	1,990	2,340	3,140	800	34.2%	1,526	94.5%
RUTGERS UNIVERSITY	1,692	1,716	1,864	2,090	2,443	2,982	539	22.1%	1,290	76.2%
INDEPENDENT COLLEGES	3,259	3,504	3,866	4,197	4,817	5,496	679	14.1%	2,237	68.6%

*"Full-time" is defined here as 30 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 30 to derive the annual figure.

Table 23

SUMMARY OF SECTOR AVERAGES:

AVERAGE ANNUAL RESIDENT (IN-STATE) PART-TIME* GRADUATE TUITION AND REQUIRED FEES,

ACADEMIC YEARS 1977-78 THROUGH 1982-83

							One-Year Changes (1982-3/1981-2)		Six-Year Changes (1982-3/1977-8)	
Sector	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	$	%	$	%
U.M.D.N.J. (BIOMED. SCI.)	$ 540	$ 540	$ 600	$ 684	$ 816	$1,008	$ 192	23.5%	$ 468	86.7%
STATE COLLEGES	589	594	609	661	731	809	78	10.7%	220	37.4%
N.J.I.T.	594	594	658	742	874	1,047	173	19.8%	453	76.3%
RUTGERS UNIVERSITY	575	583	644	727	862	1,059	197	22.9%	484	84.2%
INDEPENDENT COLLEGES	1,199	1,308	1,446	1,605	1,830	2,068	238	13.0%	869	72.5%

*"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

Table 24

SUMMARY OF SECTOR AVERAGES:

AVERAGE ANNUAL NON-RESIDENT (OUT-OF-STATE) PART-TIME* GRADUATE TUITION AND REQUIRED FEES,

ACADEMIC YEARS 1977-78 THROUGH 1982-83

							One-Year Changes (1982-3/1981-2)		Six-Year Changes (1982-3/1977-8)	
Sector	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	$	%	$	%
U.M.D.N.J. (BIOMED. SCI.)	$ 780	$ 780	$ 864	$ 984	$1,164	$1,452	$ 288	24.7%	$ 672	86.2%
STATE COLLEGES	829	834	849	901	979	1,049	70	7.2%	220	26.5%
N.J.I.T.	834	834	922	1,042	1,222	1,491	269	22.0%	657	78.8%
RUTGERS UNIVERSITY	815	823	908	1,027	1,210	1,503	293	24.2%	688	84.4%
INDEPENDENT COLLEGES	1,199	1,308	1,446	1,605	1,830	2,068	238	13.0%	869	72.5%

*"Part-time" is defined here as 12 credit hours per year; therefore, all tuitions and fees that are charged on a per-credit-hour basis were multiplied by 12 to derive the annual figure.

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